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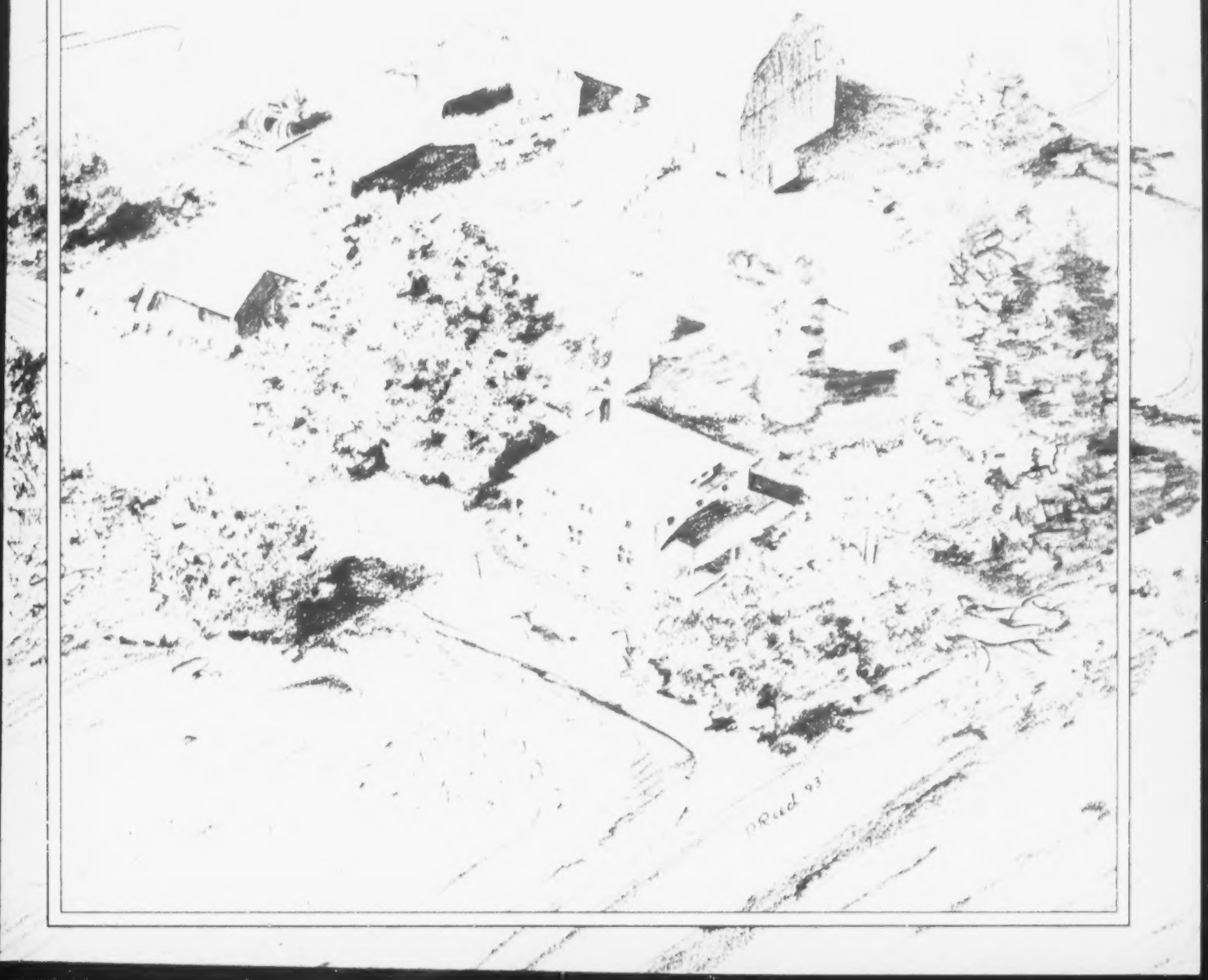
# MICHIGAN AGRICULTURAL STATISTICS

## 1993

MICHIGAN DEPARTMENT OF AGRICULTURE



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# DEPARTMENT OF AGRICULTURE

P.O. BOX 30017, LANSING, MICHIGAN 48909

BILL SCHUETTE, Director

August 1993

This annual bulletin from the Michigan Agricultural Statistics Service (MASS) provides a complete, current reference to our state's vital agricultural industry. It is widely used for reliable statistics by agribusiness and farmers.

For over a century, MASS has provided Michigan agriculture with accurate and timely statistical information. MASS has gained a reputation for thoroughness and integrity in its collection, analysis and dissemination of information vital to farmers, food processors, educators, researchers and others involved in Michigan agriculture.

Michigan is a leading agricultural state because it produces a diversity of high quality crops. This is due to our unique geographic location, varied soils and an abundant supply of fresh water.

As the second largest industry in the state, agriculture contributes enormously to Michigan's economy. Michigan leads the nation in production of the following crops: tart cherries, navy beans, blueberries, cucumbers for pickles, cranberry beans, black turtle beans, flowering hanging baskets, geraniums (potted) and Easter lilies (potted).

We hope you find *Michigan Agricultural Statistics 1993* useful and informative. Please contact the Michigan Agricultural Statistics Service if you have questions or comments.

Sincerely,

Bill Schuette
Director

PRINTED ON RECYCLED PAPER

# Michigan Agricultural Statistics 1993

Compiled by


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This bulletin is provided free to Michigan farmers and reporting agribusiness firms. Others may obtain copies at $5.00 each. Please make checks payable to USDA-NASS and send with your request to P.O. Box 20008, Lansing, MI 48901-0608.


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August 1993

Dear Friends:

The 1993 Michigan Agricultural Statistics bulletin was prepared to provide producers, marketers, researchers, and agribusiness with an accurate statistical data base. Agriculture is a major contributor to Michigan's economy with cash receipts in 1992 totaling over $3.2 billion.

The data contained in this publication provides a snapshot of the diversity of Michigan agriculture. Specialty crops, such as fruits, vegetables, potatoes, dry beans, and ornamentals make Michigan a unique state. In addition, livestock farms range from large to small and include dairy, hog, poultry, cattle, mink and aquaculture operations.

This report is intended to be a useful tool for your planning and marketing decisions. It documents and solidifies the importance of Michigan agriculture. Please feel free to suggest any changes you would like to have us consider.

We appreciate the support of all Michigan producers who generously give of their time in voluntarily reporting the many confidential statistics related to their individual operations.

Sincerely,

Don J. Fedewa
State Statistician

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# Michigan's Rank in Nation's Agriculture, 1992

| Commodity | Rank Among States | Production | Unit | Percent Of U.S. Production | Leading State |
|---|---|---|---|---|---|
| | | *1,000* | | | |
| Cranberry Beans | 1 | 360 | Cwt. | 100.0 | **Michigan** |
| Black Turtle Beans | 1 | 540 | Cwt. | 85.6 | **Michigan** |
| Tart Cherries | 1 | 245,000 | Lbs. | 73.1 | **Michigan** |
| Navy Beans | 1 | 2,660 | Cwt. | 56.5 | **Michigan** |
| Blueberries | 1 | 34,000 | Lbs. | 30.3 | **Michigan** |
| Cucumbers for Pickles | 1 | 112 | Tons | 19.0 | **Michigan** |
| Geraniums, Potted | 1 | 17,275 | Pots | 17.2 | **Michigan** |
| Easter Lilies, Potted | 1 | 1,130 | Pots | 12.6 | **Michigan** |
| Flowering Hanging Baskets | 1 | 1,970 | Baskets | 8.8 | **Michigan** |
| Gladioli | 2 | 44,700 | Spikes | 23.9 | Florida |
| All Dry Beans | 2 | 3,875 | Cwt. | 17.6 | N. Dakota |
| Bedding Plants | 2 | 9,805 | Flats | 12.6 | California |
| Asparagus | 3 | 293 | Cwt. | 12.6 | California |
| Snap Beans for Processing | 3 | 69 | Tons | 10.7 | Wisconsin |
| Apples | 3 | 1,080 | Lbs. | 10.1 | Washington |
| Celery | 3 | 1,242 | Cwt. | 6.6 | California |
| Carrots | 3 | 1,870 | Cwt. | 5.9 | California |
| Tomatoes for Processing | 3 | 181 | Tons | 2.1 | California |
| Small White Beans | 4 | 18 | Cwt. | 11.3 | Idaho |
| Sweet Cherries | 4 | 18 | Tons | 8.8 | Washington |
| Concord Grapes | 4 | 39 | Tons | 8.9 | Washington |
| Dark Red Kidney Beans | 4 | 65 | Cwt. | 8.2 | Minnesota |
| Cucumbers, Fresh Market | 4 | 630 | Cwt. | 6.9 | Florida |
| Mushrooms | 4 | 17,628 | Lbs. | 2.4 | Pennsylvania |
| Prunes & Plums | 4 | 8 | Tons | 1.7 | California |
| Sugarbeets | 5 | 3,098 | Tons | 10.7 | Minnesota |
| Trout | 5 | 2,700 | Fish | 3.2 | Idaho |
| Bell Peppers, Fresh Market | 5 | 260 | Cwt. | 1.9 | California |
| Strawberries | 5 | 122 | Cwt. | 0.9 | California |
| Cauliflower | 5 | 59 | Cwt. | 0.8 | California |
| All Grapes | 5 | 47 | Tons | 0.8 | California |
| Mohair | 5 | 95 | Lbs. | 0.6 | Texas |
| Light Red Kidney Beans | 6 | 112 | Cwt. | 10.4 | California |
| Sweet Corn, Fresh | 6 | 900 | Cwt. | 5.2 | Florida |
| Floriculture | 6 | 127,810 | Dollars | 4.5 | California |
| Spearmint | 6 | 90 | Lbs. | 2.5 | Washington |
| Pears | 6 | 6 | Tons | 0.6 | Washington |
| Poinsettias, Potted | 7 | 3,010 | Pots | 5.4 | California |
| Alfalfa Hay | 7 | 4,140 | Tons | 5.2 | California |
| Maple Syrup | 7 | 85 | Gallons | 5.2 | Vermont |
| Milk | 7 | 5,397,000 | Lbs. | 3.6 | Wisconsin |
| Peaches | 7 | 50,000 | Lbs. | 3.4 | California |
| Butter | 7 | 18,442 | Lbs. | 1.4 | Wisconsin |
| Corn for Silage | 8 | 3,630 | Tons | 4.2 | Wisconsin |
| Milk Sherbet | 8 | 2,025 | Gallons | 4.1 | Iowa |
| Sweet Corn, Processing | 8 | 43 | Tons | 1.3 | Wisconsin |
| Onions | 9 | 2,448 | Cwt. | 4.5 | California |
| Rye | 9 | 496 | Bushels | 4.1 | S. Dakota |
| Oats | 9 | 8,400 | Bushels | 2.9 | S. Dakota |
| Snap Beans, Fresh Market | 9 | 94 | Cwt. | 2.7 | Florida |
| Cantaloupes, Fresh Market | 9 | 80 | Cwt. | 0.4 | California |
| Ice Milk | 10 | 11,944 | Gallons | 3.6 | California |
| All Potatoes | 10 | 13,920 | Cwt. | 3.4 | Idaho |
| Other Dry Beans | 10 | 22 | Cwt. | 2.7 | California |
| Tomatoes, Fresh Market | 10 | 325 | Cwt. | 0.9 | Florida |
| Lettuce | 10 | 80 | Cwt. | 0.1 | California |
| Ice Cream | 11 | 26,966 | Gallons | 3.1 | California |
| Corn for Grain | 11 | 241,500 | Bushels | 2.5 | Iowa |
| Cabbage, Fresh Market | 11 | 440 | Cwt. | 2.4 | California |
| Hogs & Pigs[1] | 11 | 1,280 | Head | 2.2 | Iowa |
| Soybeans | 12 | 47,520 | Bushels | 2.2 | Illinois |
| Mink | 12 | 53 | Pelts | 1.8 | Wisconsin |
| Pinto Beans | 12 | 98 | Cwt. | 1.1 | N. Dakota |
| Cash Receipts From Marketings | 22 | 3,239,000 | Dollars | 1.9 | California |

[1]December 1 Inventory

## Michigan Farm Numbers , Acreage, and Value of Farm Real Estate,

[Starting with 1979, USDA estimates of farm numbers and land in farms is based on the definition "a farm is a place as of June 1 that sells or could sell $1,000 of agricultural products during the year." Prior to 1979 farm definition was "place of 10 or more acres that had annual sales of $50 or more or places that had annual sales of $250 or more."]

| Year | Number of Farms | Average Size per Farm | Total Land in Farms | Average Value per Acre of Land and Buildings | Total Value of Land and Buildings | Farms Rented for Cash per Acre | Cropland Rented for Cash per Acre |
|---|---|---|---|---|---|---|---|
| | | *Acres* | *1,000 Acres* | *Dollars* | *Million Dollars* | *Dollars* | *Dollars* |
| **1993** | **52,000** | **206** | **10,700** | **1,130** | **12,204** | **46.00** | **45.60** |
| 1992 | 54,000 | 200 | 10,800 | 1,105 | 11,937 | 44.90 | 47.40 |
| 1991 | 54,000 | 200 | 10,800 | 1,085 | 11,718 | 52.80 | 45.50 |
| 1990 | 54,000 | 200 | 10,800 | 1,005 | 10,854 | 43.80 | 41.40 |
| 1989 | 55,000 | 196 | 10,800 | 983 | 10,616 | 42.50 | 44.20 |
| 1988 | 56,000 | 195 | 10,900 | 971 | 10,583 | 39.20 | 41.70 |
| 1987 | 57,000 | 193 | 11,000 | 924 | 10,163 | 41.50 | 41.90 |
| 1980 | 65,000 | 175 | 11,400 | 1,111 | 12,665 | 46.40 | 49.40 |
| 1970 | 84,000 | 151 | 12,700 | 326 | 4,140 | 15.60 | 17.50 |
| 1960 | 118,000 | 131 | 15,400 | 194 | 2,989 | 14.10 | – |
| 1950 | 161,000 | 111 | 17,900 | 99 | 1,764 | – | – |
| 1940 | 190,000 | 97 | 18,400 | 51 | 913 | – | – |
| 1930 | 179,000 | 101 | 18,000 | 68 | 1,161 | – | – |
| 1920 | 196,447 | 97 | 19,033 | 75 | 1,437 | – | – |
| 1910 | 206,960 | 92 | 18,941 | 48 | 901 | – | – |
| 1900 | 203,261 | 86 | 17,562 | 33 | 583 | – | – |

## Number of Farms and Land in Farms by Economic Sales Class, Michigan

| Year | Economic Sales Class | | | Total |
|---|---|---|---|---|
| | $1,000-$9,999 | $10,000-$99,999 | $100,000- and Over | |
| | *Number of Farms* | | | |
| **1993** | **27,500** | **16,500** | **8,000** | **52,000** |
| 1992 | 28,000 | 18,000 | 8,000 | 54,000 |
| 1991 | 28,000 | 18,000 | 8,000 | 54,000 |
| 1990 | 28,000 | 18,000 | 8,000 | 54,000 |
| 1989 | 30,000 | 18,000 | 7,000 | 55,000 |
| | *1,000 acres* | | | |
| **1993** | **1,500** | **3,100** | **6,100** | **10,700** |
| 1992 | 1,500 | 3,300 | 6,000 | 10,800 |
| 1991 | 1,500 | 3,300 | 6,000 | 10,800 |
| 1990 | 1,500 | 3,300 | 6,000 | 10,800 |
| 1989 | 1,500 | 4,300 | 5,000 | 10,800 |
| 1988 | 2,200 | 4,400 | 4,300 | 10,900 |

## Michigan Value of Production by Crop

| Year | Field Crops | Fruit | Vegetables[1] |
|---|---|---|---|
| | | *1,000 Dollars* | |
| **1992** | **1,538,944**[2] | **218,929**[3] | **170,899** |
| 1991 | 1,601,528 | 179,003 | 143,164 |
| 1990 | 1,555,065 | 146,413 | 137,985 |
| 1989 | 1,561,005 | 147,139 | 133,645 |
| 1988 | 1,295,412 | 155,489 | 125,413 |

[1] 1992 data are not comparable with 1988-1991 because of additional estimates for selected vegetables.
[2] Includes 1992 sugarbeet production valued at the 1991 level.
[3] Includes 1992 tart cherry production valued at the 1991 level.

# Record Highs and Lows In Michigan Agriculture

| Field Crops & Vegetables | Year Estimates Started | Record | Acreage | | Yield | | | Production | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Harvested | Year | Unit | Per Acre | Year | Total | Year |
| | | | *1,000* | | | | | *1,000* | |
| Corn for grain | 1924 | High | 2,800 | 1981 | Bu. | 115 | 1990 | 293,180 | 1982 |
| | | Low | 577 | 1929 | | 24.5 | (1) | 15,637 | 1929 |
| Corn for Silage | 1924 | High | 498 | 1971 | Ton | 14.5 | 1990 | 5,565 | 1977 |
| | | Low | 211 | 1942 | | 4.7 | 1930 | 1,542 | 1930 |
| Winter Wheat | 1909 | High | 1,515 | 1953 | Bu. | 60 | 1985 | 45,600 | 1984 |
| | | Low | 400 | 1987 | | 10.5 | 1912 | 7,350 | 1912 |
| Oats | 1866 | High | 1,658 | 1918 | Bu. | 70 | 1992 | 69,388 | 1946 |
| | | Low | 120 | (2) | | 18.5 | 1921 | 5,400 | 1991 |
| Barley | 1866 | High | 303 | 1932 | Bu. | 68 | 1985 | 8,400 | 1918 |
| | | Low | 16 | 1974 | | 13.5 | 1933 | 546 | 1866 |
| Rye | 1866 | High | 913 | 1919 | Bu. | 33 | 1989 | 12,143 | 1919 |
| | | Low | 7 | 1866 | | 8.8 | 1934 | 105 | 1866 |
| Soybeans | 1924 | High | 1,440 | 1992 | Bu. | 38 | (3) | 52,820 | 1991 |
| | | Low | 1 | 1930 | | 8 | 1927 | 10 | 1930 |
| Potatoes | 1866 | High | 374 | 1895 | Cwt. | 290 | 1992 | 23,256 | 1904 |
| | | Low | 36.4 | 1975 | | 26 | (4) | 3,557 | 1876 |
| Dry Beans | 1909 | High | 690 | 1930 | Cwt. | 18.5 | 1991 | 8,585 | 1963 |
| | | Low | 185 | 1988 | | 3.2 | 1917 | 1,656 | 1916 |
| Sugarbeets | 1906 | High | 175 | 1992 | Ton | 21.3 | 1970 | 3,266 | 1990 |
| | | Low | 48 | 1943 | | 5.5 | 1916 | 298 | 1943 |
| All Hay | 1866 | High | 2,907 | 1924 | Ton | 3.7 | 1990 | 5,743 | 1986 |
| | | Low | 780 | 1866 | | 0.6 | 1895 | 1,014 | 1866 |
| Alfalfa | 1919 | High | 1,444 | 1950 | Ton | 3.9 | (3) | 5,040 | (5) |
| | | Low | 74 | 1919 | | 1.1 | 1934 | 118 | 1919 |
| Spearmint | 1935 | High | 8.7 | 1954 | Lb. | 47 | 1935 | 280 | 1948 |
| | | Low | 0.7 | 1935 | | 20 | 1965 | 30 | 1965 |
| Asparagus | 1928 | High | 23.5 | (3) | Cwt. | 31 | 1947 | 293 | 1992 |
| | | Low | 1 | 1928 | | 9 | 1981 | 17 | 1928 |
| Carrots | 1929 | High | 7.5 | 1984 | Cwt. | 350 | 1930 | 2,025 | 1984 |
| | | Low | 0.5 | 1929 | | 150 | 1959 | 132 | 1936 |
| Cauliflower | 1939 | High | 1.9 | 1958 | Cwt. | 141 | 1949 | 212 | 1949 |
| | | Low | 0.7 | (6) | | 36 | 1959 | 38 | 1973 |
| Celery | 1928 | High | 7.2 | 1941 | Cwt. | 470 | 1982 | 1,918 | 1941 |
| | | Low | 1.9 | 1960 | | 174 | 1935 | 590 | 1959 |
| Cucumbers for Pickles | 1918 | High | 46.3 | 1949 | Ton | 6.7 | 1987 | 160,800 | 1987 |
| | | Low | 9.3 | 1932 | | 0.5 | 1924 | 17,856 | 1932 |
| Lettuce | 1952 | High | 1.7 | 1963 | Cwt. | 250 | (7) | 384 | 1967 |
| | | Low | 0.4 | 1992 | | 85 | 1953 | 80 | 1992 |
| Onions | 1928 | High | 12.7 | 1935 | Cwt. | 350 | 1960 | 2,933 | 1984 |
| | | Low | 5 | 1928 | | 120 | 1935 | 852 | 1928 |
| Snap Beans (Proc.) | 1918 | High | 26.5 | 1990 | Ton | 3.3 | 1992 | 79,650 | 1990 |
| | | Low | 0.8 | 1921 | | 0.6 | 1947 | 600 | 1921 |
| Sweet Corn | 1949 | High | 15.2 | 1961 | Cwt. | 80 | 1970 | 1,016 | 1970 |
| | | Low | 9 | 1988 | | 42 | 1949 | 525 | 1949 |
| Strawberries | 1928 | High | 11.6 | 1957 | Lb. | 8,000 | (8) | 45,144 | 1940 |
| | | Low | 2.1 | (2) | | 1,080 | 1934 | 11,880 | 1934 |
| Tomatoes (Proc.) | 1918 | High | 9.7 | 1982 | Ton | 32.4 | 1992 | 205 | 1982 |
| | | Low | 1 | 1921 | | 2.7 | 1943 | 5 | 1921 |
| Tomatoes (Fresh) | 1928 | High | 9.4 | 1943 | Cwt. | 125 | 1992 | 797 | 1943 |
| | | Low | 2.4 | 1988 | | 60 | 1959 | 204 | 1988 |

# Record Highs and Lows in Michigan Agriculture (Continued)

| Fruit | Year Estimates Started | Record | Trees of Bearing Age | Year | Production | | |
|---|---|---|---|---|---|---|---|
| | | | | | Unit | Total | Year |
| | | | *1,000* | | | | |
| Apples | 1889 | High | 10,928 | 1899 | Mil. Lbs. | 1,100 | 1985 |
| | | Low | 2,200 | [9] | | 53 | 1945 |
| Tart Cherries | 1925 | High | 3,650 | [10] | Mil. Lbs. | 380 | 1964 |
| | | Low | 1,339 | 1929 | | 18 | 1927 |
| Sweet Cherries | 1925 | High | 980 | [11] | Mil. Lbs. | 75 | 1978 |
| | | Low | 79 | 1929 | | 1 | 1945 |
| Peaches | 1889 | High | 12,500 | 1898 | Mil. Lbs. | 245 | [12] |
| | | Low | 400 | 1982 | | 7 | 1918 |
| Pears | 1889 | High | 1,319 | 1898 | Ton | 48,600 | 1964 |
| | | Low | 140 | 1990 | | 2,425 | 1890 |
| Prunes & Plums | 1919 | High | 750 | 1972 | Ton | 25,000 | 1971 |
| | | Low | 209 | 1941 | | 1,700 | 1945 |
| Grapes[13] | 1889 | High | 18,500 | 1929 | Ton | 77,900 | 1932 |
| | | Low | 5,100 | [14] | | 4,200 | 1889 |

| Livestock & Products | Year Estimates Started | Record | Inventory January 1 or Production | | |
|---|---|---|---|---|---|
| | | | Unit | Total | Year |
| Cattle & Calves | 1867 | High | 1,000 Head | 2,036 | 1944 |
| | | Low | | 538 | 1867 |
| Beef Cows | 1920 | High | 1,000 Head | 239 | 1977 |
| | | Low | | 24 | [15] |
| Milk Cows | 1867 | High | 1,000 Head | 1,080 | 1945 |
| | | Low | | 225 | 1867 |
| Cattle on Feed | 1930 | High | 1,000 Head | 250 | 1991 |
| | | Low | | 57 | 1931 |
| Hogs & Pigs[16] | 1867 | High | 1,000 Head | 1,397 | 1944 |
| | | Low | | 512 | 1935 |
| Sheep | 1867 | High | 1,000 Head | 3,100 | 1867 |
| | | Low | | 103 | 1992 |
| Chickens (all)[16] | 1924 | High | 1,000 Head | 15,512 | 1944 |
| | | Low | | 6,300 | 1992 |
| Milk | 1924 | High | Mil.Lbs. | 5,758 | 1964 |
| | | Low | | 3,941 | 1927 |
| Eggs[16] | 1924 | High | Mil. Eggs | 1,697 | 1944 |
| | | Low | | 1,104 | 1929 |
| Wool | 1934 | High | 1,000 Lbs. | 8,424 | 1934 |
| | | Low | | 722 | 1987 |

[1] 1930, 1934
[2] 1991, 1992
[3] 1990, 1991
[4] 1887, 1916
[5] 1985, 1986, 1989
[6] 1976, 1986
[7] 1982, 1985, 1991
[8] 1976, 1982
[9] 1960, 1961
[10] 1963, 1964, 1965, 1966, 1967
[11] 1973, 1974, 1975
[12] 1945, 1946
[13] Vines of bearing age
[14] 1989, 1990
[15] 1925,1933
[16] December 1

# Weather

The major story of the 1992 crop year was centered around Mother Nature. An abnormally warm winter was followed by a wet April. The wet April delayed planting two to three weeks. The weather turned dry in May which hampered crop germination. On Memorial Day weekend, frost hit the majority of the state and was followed by a cooler than normal summer. All of these factors combined caused major delays in harvesting corn and soybeans. Michigan growers hope to never see 1992 weather duplicated.

The abnormally warm winter, with mean temperatures 4 to 8 degrees above normal across most of the state, left the winter wheat crop in good condition. Winterkill was not widespread, and was mostly caused by ponds in low lying areas, with only scattered reports of winterkill caused by low temperatures. Temperatures during late February and early March were 10 to 20 degrees above normal, particularly in southern Michigan. By mid-March, below normal temperatures returned and some heavy snows fell across most of the state. Growing degree days (GDD) were already beginning to lag behind normal for all but southeastern Michigan.

Mid-April saw a pattern of brief warm spells followed by cloudy, cool, wet and windy weather. Mean temperatures were still slightly below normal, causing crop development to be behind the 30 year averages and GDD to also lag behind normal. Some portions of central and southeastern Michigan experienced precipitation levels significantly above normal. Most areas were too wet for any spring activity.

Spring planting began in earnest the first week of May, as soil conditions improved. Temperatures, however, remained cool and GGD continued to lag behind normal. Dry conditions prevailed for most of the month causing germination problems in many crops. A hard frost Memorial Day weekend damaged field crops, fruits and vegetables across most of the state. Some replanting was required in hard hit areas.

Early June remained mostly cool and dry, with precipitation deficits of 1 to 5 inches being reported. (Northern and western Michigan showed the largest moisture deficits.) The dry spell ended mid-month with a storm that brought high winds, tornadoes and a small amount of rain. Concerns were still high over the lack of moisture, cool temperatures and lack of GDD received so far in 1992. The first day of summer brought unseasonably cold temperatures that were at or near record lows across the state. Snow was received in the Upper Peninsula, during this cool spell.

July remained cool with temperatures across the state being reported at 3 to 6 degrees below normal. Growing degree days were one to two weeks behind normal. Widespread rain was received the second week of the month along with more frost in northern areas. The rest of the month was generally cool and damp.

August remained cool and damp and wrapped up the coolest Michigan summer since at least 1895. Wheat harvest was only 70 percent complete at the beginning of the month (the five year average is 95 percent). At the end of August the corn crop was reported as only 2 percent in the dent stage (normal is 30 percent); the oat harvest was only 65 percent complete (normal is 97 percent); and only 60 percent of the soybeans were setting pods (normal is 90 percent).

September started out warmer and humid (although temperatures were still below normal across the state). Rainfall mid-month hampered potato, oat, hay and corn silage harvests. The third week of the month brought temperatures above normal across the state and helped boost development of most crops. However, maturity levels of many crops remained two to four weeks behind. The last week saw a return to cold weather with temperatures in the 20's and 30's across most of the state. Frost damage was varied with northern areas more heavily effected. Rain and immature crops continued to delay harvest and subsequently the planting of winter wheat (which was 10 percent behind the five year average).

October started with warm days and cool nights, helping crop development and harvest activities in many areas of the state. Mid month saw the return of cold and wet weather, with northern and central areas receiving snow. Corn harvest was only 10 percent complete at the end of the month (the five year average is 55 percent). Fifty five percent of the soybeans were harvested (normal is 80 percent).

November was cold and wet with only brief opportunities to harvest crops. At the end of the month, 25 percent of the corn and 85 percent of the soybeans were harvested. Normally, harvesting of corn and soybeans would be 95 percent complete by mid-November.

December weather was characterized as cold, wet and snowy with very little opportunity to harvest corn and soybeans. By mid-December, soybean harvest had advanced to only 90 percent complete, normally 99 percent harvested. Corn harvest advanced to 50 percent complete, well behind the five year average of 99 percent. By the end of the month, soybean harvest was finished but corn harvest was only 70 percent complete. The corn remaining to be harvested lingered well into the new year. Corn harvest was active during the winter and spring of 1993. Harvest was finally finished in May.

# Growing Degree Day Comparsion

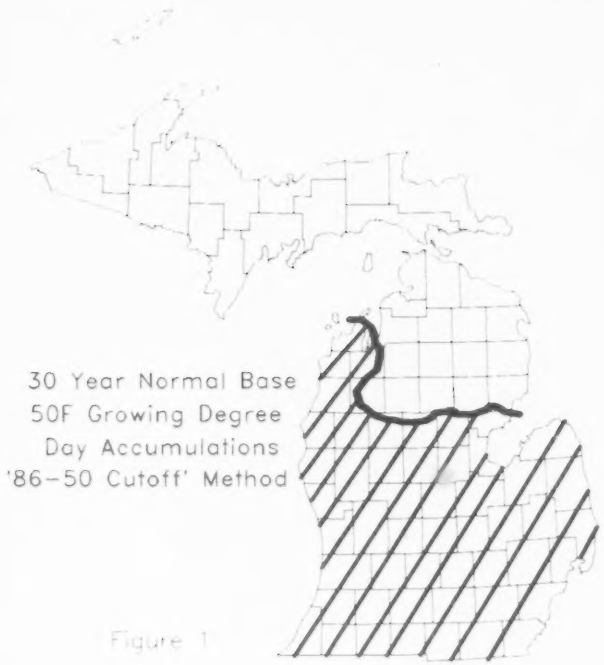



Figure 1

Source: Jeffrey Andresen, Department of Geography and Dale Harpstead, Department of Crops and Soils , Michigan State University.

The rate of growth and development of many crops is strongly dependent upon the relative amount of heat in the environment in which it grows. Growing Degree Day Units (GDD's) are a commonly used temperature-derived index calculated for such a purpose. Thirty year normals for seasonal (May through September) base $50^0$F Growing Degree Day accumulations relative to corn growth are given in Figure 1. Areas with seasonal accumulations greater than 2,200 GDD's are shaded. The 2,200 GDD value is the approximate lower limit of accumulated heat required to grow corn for grain. The shaded area encompasses roughly the southern 2/3rd of the Lower Peninsula plus a couple of counties close to Lake Michigan (note that this is only an approximation of the true range of corn for grain as short season hybrids are successfully grown in south central sections of the Upper Peninsula). Besides the mean GDD accumulations, it is also important to know how greatly these values may vary from one year to the next. Such a comparison is possible using data from one of the warmest growing seasons of the century, 1991, and the coolest, 1992. Similar to the normal case in Figure 1, areas within the state accumulating more than 2,200 GDD's are shaded for the 1991 season (Figure 2) and for the 1992 season (Figure 3). The large differences in the two figures help explain Michigan's location at the northeastern edge of the "Cornbelt" region, as even central sections of the state do experience growing seasons with insufficient heat for corn (as evidenced by the 1992 season).

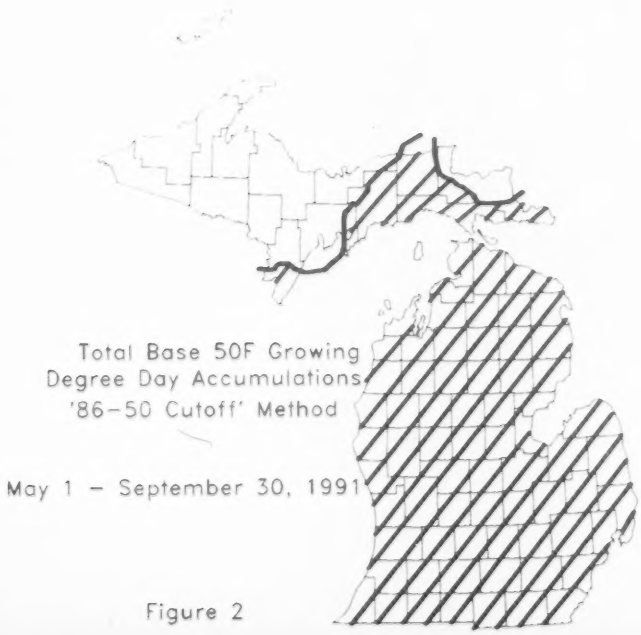



Figure 2

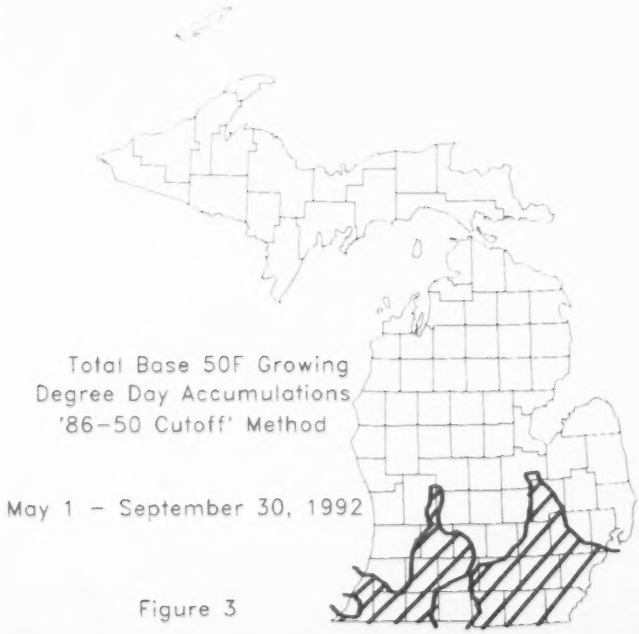



Figure 3

# Rotational Survey Fruit-1991

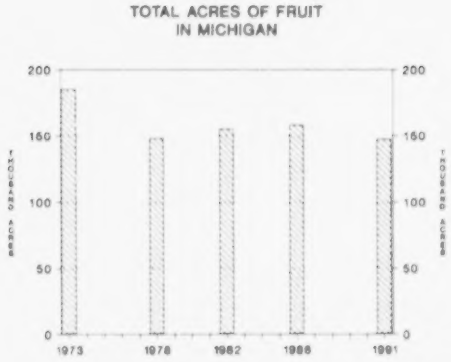
The total acres of fruit on commercial operations has stabilized since 1978 at about 150,000 acres. The number of operations growing fruit, however, has been declining. The 1991 total of 2,680 was down 12 percent from the 1986 count of 3,030. This, of course, means that fruit production has been becoming more concentrated. In 1982, for example, apple operations with 100 or more acres had 45 percent of the total acres. By 1991 that figure had risen to 54 percent.

The geographic concentrations of fruit varied substantially. The top five apple counties accounted for 56 percent of total acres. The comparable figures for tart cherries and blueberries were 72 percent and 95 percent, respectively. The counties with the most acres of fruit were, in order: Berrien, Van Buren, Leelanau, Oceana and Kent. They contained nearly 60 percent of the 147,000 acres of fruit in Michigan.

The densities of most tree fruit continued to rise. Since 1973 the trees per acre for apples has more than doubled--from 57 to 117. The trees per acre for apples planted from 1987-91 was 196, up from 156 for the previous 5-year cohort. The total tart cherry trees per acre has climbed over that period from 92 to 110.

## Operations and Acres by County and District

| County and District | Operations | Apples | Tart Cherries | Sweet Cherries | Blueberries | Grapes |
|---|---|---|---|---|---|---|
| | *Number* | | | *Acres* | | |
| Antrim | 49 | 550 | 2,380 | 910 | 18 | 0 |
| Benzie | 44 | 1,160 | 1,260 | 360 | 3 | 14 |
| Grand Traverse | 133 | 1,150 | 4,650 | 2,060 | 7 | 82 |
| Leelanau | 185 | 2,120 | 7,730 | 3,800 | 0 | 82 |
| Manistee | 55 | 2,050 | 1,580 | 300 | 8 | 0 |
| Charlevoix and Emmet | 10 | 190 | 230 | 35 | 0 | 0 |
| Northwest | 476 | 7,220 | 17,800 | 7,470 | 35 | 180 |
| Ionia | 39 | 1,990 | 15 | 8 | 4 | 6 |
| Kent | 158 | 11,800 | 620 | 47 | 14 | 11 |
| Mason | 37 | 1,490 | 1,960 | 500 | 32 | 0 |
| Montcalm and Mecosta | 18 | 960 | 39 | 24 | 21 | 1 |
| Muskegon | 51 | 2,250 | 620 | 5 | 1,140 | 0 |
| Newaygo | 28 | 1,910 | 430 | 11 | 100 | 0 |
| Oceana | 135 | 3,260 | 8,010 | 560 | 74 | 21 |
| Ottawa | 192 | 3,820 | 220 | 49 | 5,130 | 1 |
| West Central | 658 | 27,400 | 11,900 | 1,200 | 6,520 | 40 |
| Allegan | 150 | 1,710 | 480 | 40 | 2,340 | 63 |
| Berrien | 565 | 8,000 | 3,920 | 180 | 1,050 | 6,100 |
| Cass | 32 | 1,040 | 430 | 8 | 17 | 620 |
| Kalamazoo | 38 | 640 | 170 | 5 | 28 | 420 |
| Van Buren | 440 | 6,370 | 3,270 | 75 | 5,900 | 4,500 |
| Southwest | 1,225 | 17,800 | 8,270 | 310 | 9,340 | 11,700 |
| North | 24 | 130 | 6 | 15 | 31 | 0 |
| Saginaw Bay | 33 | 190 | 23 | 1 | 120 | 11 |
| Central | 52 | 890 | 4 | 5 | 50 | 7 |
| West Thumb | 49 | 960 | 91 | 10 | 94 | 32 |
| East Thumb | 61 | 1,760 | 27 | 30 | 110 | 18 |
| South Central | 38 | 700 | 8 | 3 | 30 | 36 |
| Southeast | 64 | 950 | 23 | 9 | 32 | 1 |
| East | 321 | 5,580 | 180 | 73 | 460 | 100 |
| **State** | 2,680 | 58,000 | 38,200 | 9,050 | 16,400 | 12,000 |




Additional information about Michigan's fruit industry is contained in the publication, *Michigan Rotational Survey Fruit - 1991*, available upon request from the Michigan Agricultural Statistics Service.

## Operations and Acres by County and District (continued)

| County And District | Peaches | Prunes and Plums | Pears | Nectarines | Apricots | Brambles | All Fruit |
|---|---|---|---|---|---|---|---|
| | | | | *Acres* | | | |
| Antrim | 58 | 31 | 34 | 3 | 7 | 7 | 4,000 |
| Benzie | 19 | 32 | 16 | 0 | 30 | 4 | 2,900 |
| Grand Traverse | 38 | 250 | 84 | 4 | 1 | 3 | 8,330 |
| Leelanau | 83 | 330 | 38 | 2 | 49 | 5 | 14,200 |
| Manistee | 190 | 72 | 14 | 0 | 8 | 9 | 4,230 |
| Charlevoix and Emmet | 17 | 2 | 8 | 0 | 1 | 4 | 490 |
| Northwest | 400 | 720 | 190 | 9 | 96 | 32 | 34,200 |
| Ionia | 65 | 3 | 5 | 3 | 0 | 8 | 2,110 |
| Kent | 400 | 140 | 36 | 23 | 5 | 5 | 13,100 |
| Mason | 300 | 210 | 64 | 6 | 0 | 1 | 4,560 |
| Montcalm and Mecosta | 29 | 20 | 8 | 1 | 1 | 12 | 1,120 |
| Muskegon | 250 | 8 | 5 | 1 | 1 | 1 | 4,280 |
| Newaygo | 280 | 43 | 38 | 9 | 5 | 2 | 2,830 |
| Oceana | 1,150 | 450 | 210 | 2 | 16 | 0 | 13,800 |
| Ottawa | 160 | 71 | 9 | 7 | 3 | 5 | 9,480 |
| West Central | 2,630 | 940 | 370 | 52 | 31 | 34 | 51,300 |
| Allegan | 580 | 110 | 230 | 14 | 4 | 12 | 5,580 |
| Berrien | 3,350 | 310 | 180 | 140 | 31 | 97 | 23,400 |
| Cass | 75 | 65 | 1 | 1 | 0 | 2 | 2,260 |
| Kalamazoo | 20 | 10 | 6 | 1 | 1 | 0 | 1,300 |
| Van Buren | 920 | 400 | 180 | 40 | 11 | 52 | 21,700 |
| Southwest | 4,950 | 900 | 600 | 200 | 47 | 160 | 54,200 |
| North | 3 | 1 | 3 | 0 | 1 | 18 | 210 |
| Saginaw Bay | 14 | 2 | 19 | 0 | 1 | 15 | 400 |
| Central | 17 | 6 | 10 | 1 | 1 | 31 | 1,020 |
| West Thumb | 37 | 12 | 18 | 0 | 0 | 77 | 1,330 |
| East Thumb | 150 | 11 | 58 | 1 | 1 | 39 | 2,200 |
| South Central | 16 | 5 | 11 | 0 | 0 | 56 | 860 |
| Southeast | 63 | 12 | 16 | 2 | 1 | 72 | 1,180 |
| East | 300 | 49 | 140 | 4 | 5 | 310 | 7,200 |
| **State** | 8,290 | 2,600 | 1,300 | 260 | 180 | 540 | 147,000 |

# Fruit and Vegetable Chemical Usage

This report funded through the USDA's Pesticide Data Program is the first on Fruit Chemical Usage and the second Vegetable Chemical Usage Summary. It is planned that this data will be released on an every other year rotating basis. The purpose of this program is to upgrade the reliability of pesticide use statistics and the quality of information on pesticide residues in food.

There were 13 major fruit producing states in the survey. The 8 fruit crops targeted for data collection in Michigan were apples, blueberries, grapes, peaches, prunes and plums, raspberries, sweet cherries and tart cherries. Data collection for the 1991 crop year began in October, 1991, and continued through December.

Fourteen major vegetable producing states conducted a vegetable chemical use survey. In Michigan, data was collected between October and December of 1992 for 20 target crops.

A thorough review compared reported data with manufacturer's label recommendations and with data from other farm operators using the same product. Following this review, product information was converted to an active ingredient level. The active ingredient is the specific chemical which kills or controls the target pests.

More detailed information including percent of area applied, number of applications, rate per application, rate per crop year and total pounds applied for specific chemicals by crop is available. Please contact the Michigan Agricultural Statistics Service if you are interested in more detailed chemical information.

## Fertilizer Applications On Vegetables, Michigan 1992

| Crop[2] | Acres | Percent Area Applied[1] | | | Pounds Per Acre Per Crop Year | | |
|---|---|---|---|---|---|---|---|
| | | Nitrogen | Phosphate | Potash | Nitrogen | Phosphate | Potash |
| Asparagus | 23,000 | 91 | 30 | 78 | 76 | 37 | 93 |
| Beans, Snap, Processed | 23,000 | 100 | 97 | 69 | 43 | 44 | 71 |
| Carrots | 6,900 | 91 | 87 | 97 | 83 | 87 | 138 |
| Corn, Sweet, Fresh | 14,500 | 95 | 91 | 91 | 88 | 68 | 85 |
| Corn, Sweet, Processed | 7,500 | 100 | 100 | 100 | 159 | 37 | 95 |
| Cucumbers, Processed | 23,000 | 100 | 93 | 95 | 69 | 50 | 109 |
| Onions, Dry | 7,600 | 97 | 95 | 97 | 113 | 116 | 167 |
| Strawberries | 2,300 | 98 | 83 | 86 | 83 | 59 | 67 |
| Tomatoes, Fresh | 2,700 | 91 | 89 | 83 | 72 | 67 | 88 |
| Tomatoes, Processed | 6,200 | 100 | 80 | 97 | 78 | 96 | 261 |

[1] Refers to acres receiving one or more applications of a specific agricultural chemical.

[2] The Vegetable Chemical Usage 1992 Summary includes information for the following not listed in the table above: Beans, Snap, Fresh; Cabbage, Fresh; Cabbage, Processed; Cauliflower; Celery; Lettuce, Head; Cantaloupe; Cucumbers, Fresh; Peas, Processed; and Peppers, Bell.

## Pesticide Applications On Vegetables, Michigan 1992

| Crop | Percent of Acres Receiving One or More Applications | | | |
|---|---|---|---|---|
| | Herbicide | Insecticide | Fungicide | Other |
| | *Percent* | | | |
| Asparagus | 96 | 84 | 50 | (1) |
| Beans, Snap, Processed | 100 | 92 | (2) | (1) |
| Carrots | 90 | 65 | 78 | (1) |
| Corn, Sweet, Fresh | 76 | 80 | (2) | (1) |
| Corn, Sweet, Processed | 93 | 93 | (1) | (1) |
| Cucumbers, Processed | 82 | 31 | 43 | (1) |
| Onions, Dry | 93 | 99 | 97 | (2) |
| Strawberries | 90 | 67 | 68 | (1) |
| Tomatoes, Fresh | 65 | 72 | 81 | (2) |
| Tomatoes, Processed | 90 | 82 | 99 | 72 |

[1] Applied on less than 1 percent of acres.

[2] Insufficient reports to publish area receiving.

## Fertilizer Applications On Fruit, Michigan 1991

| Crop | Bearing Acres | Percent Area Applied[1] | | | Pounds Per Acre | | |
|---|---|---|---|---|---|---|---|
| | | Nitrogen | Phosphate | Potash | Nitrogen | Phosphate | Potash |
| Apples | 51,200 | 80 | 25 | 42 | 71 | 29 | 56 |
| Blueberries | 15,000 | 92 | 36 | 79 | 78 | 35 | 56 |
| Grapes | 11,000 | 82 | 28 | 60 | 80 | 48 | 113 |
| Peaches | 8,200 | 92 | 28 | 56 | 66 | 42 | 76 |
| Prunes & Plums | 3,800 | 85 | 23 | 43 | 83 | 36 | 71 |
| Raspberries | 800 | 89 | 49 | 81 | 55 | 62 | 61 |
| Sweet Cherries | 9,900 | 85 | 25 | 50 | 85 | 35 | 117 |
| Tart Cherries | 31,800 | 85 | 21 | 48 | 105 | 30 | 111 |

[1]Refers to acres receiving one or more applications of a specific agricultural chemical.

## Pesticide Applications On Fruit, Michigan 1991

| Crop | Percent Bearing Acres Receiving Applications | | | |
|---|---|---|---|---|
| | Herbicide | Insecticide | Fungicide | Other Chemical |
| Apples | 28 | 100 | 99 | 37 |
| Blueberries | 63 | 97 | 81 | 3 |
| Grapes | 81 | 91 | 98 | 3 |
| Peaches | 34 | 98 | 99 | 3 |
| Prunes & Plums | 30 | 92 | 95 | 4 |
| Raspberries | 63 | 81 | 71 | (1) |
| Sweet Cherries | 33 | 97 | 97 | 49 |
| Tart Cherries | 27 | 80 | 96 | 47 |

[1]Less than 1 percent.

# Water Quality Initiative

This report is the third annual Field Crops Summary issued by the National Agricultural Statistics Service covering on-farm fertilizer and agricultural chemical use for 1992. The data presented were funded through the President's Water Quality Initiative.

The Water Quality Initiative is a multi-agency program designed to provide information to farmers, ranchers, and foresters addressing environmental issues. In the past, farm level data have been inadequate to determine the magnitude of water quality problems or the benefits and costs of alternative solutions for the farmer and other affected parties. These data will help fill some of the data needs that analysts require to find solutions to the complex environmental issues of the 1990's.

All farms selected were surveyed to determine which chemicals they were applying to their fields. The sample fields were randomly selected from those determined to have the commodity in the June Agriculture Survey so that the probability of selecting a particular field was directly proportional to the total planted acreage of the commodity. In Michigan, the data is based on 380 samples for corn and 140 samples for fall potatoes. The following are results for Michigan.

## Corn Fertilizer Usage 1992

[1992 Michigan planted acreage was 2.7 million acres]

| Fertilizer | Trade Name | Total Acreage Receiving Material[1] | Average Applications Per Acre | Average Application Rate | Application Rate Per Crop Year | Total Quantity Applied |
|---|---|---|---|---|---|---|
| | | *Percent* | *Number* | *Pounds/ Acre* | *Pounds/ Acre* | *Million Pounds* |
| Nitrogen | N | 96 | 1.9 | 64 | 119 | 308.3 |
| Phosphate | P | 89 | 1.0 | 51 | 52 | 126.0 |
| Potash | K | 85 | 1.3 | 70 | 87 | 200.1 |

[1]Refers to acres receiving one or more applications of a specific agricultural chemical.

## Corn Chemical Usage 1992

| Active Ingredient | Trade Name | Total Acreage Receiving Material[1] | Average Applications Per Acre | Average Application Rate | Application Rate Per Crop Year | Total Quantity Applied |
|---|---|---|---|---|---|---|
| | | *Percent* | *Number* | *Pounds/ Acre* | *Pounds/ Acre* | *1,000 Pounds* |
| **Herbicides**[2] | | | | | | |
| 2,4-D | Several | 9 | 1.0 | 0.32 | 0.32 | 75 |
| Alachlor | Lasso | 28 | 1.0 | 1.92 | 1.94 | 1,481 |
| Atrazine | AAtrex | 69 | 1.0 | 1.29 | 1.34 | 2,504 |
| Bromoxynil | Buctril/Brominal | 6 | 1.0 | 0.27 | 0.27 | 47 |
| Cyanazine | Bladex | 22 | 1.1 | 1.53 | 1.64 | 970 |
| Dicamba | Banvel | 15 | 1.0 | 0.34 | 0.34 | 138 |
| Glyphosate | Ranger/Rodeo/Roundup | 3 | 1.0 | 1.00 | 1.00 | 69 |
| Metolachlor | Dual | 38 | 1.0 | 1.75 | 1.75 | 1,775 |
| Pendimethalin | Prowl | 9 | 1.0 | 0.99 | 0.99 | 233 |
| **Insecticides**[3] | | | | | | |
| Chlorpyrifos | Dursban/Lorsban | 13 | 1.0 | 1.15 | 1.15 | 401 |
| Terbufos | Counter | 5 | 1.0 | 1.05 | 1.05 | 127 |

[1]Refers to acres receiving one or more applications.
[2]Insufficient reports to publish data for the following herbicides: Bentazon, Butylate, EPTC, Linuron, Methibuzin, Nicosulfuron, Paraquat, Primisulfuron, Simazine and Tridiphane.
[3]Insufficient reports to publish data for the following insecticides: Carbofuran, Fonofos, Phorate, Tefluthrin, and Trimethacarb.

## Fall Potatoes Fertilizer Usage 1992

[1992 Michigan planted acreage was 37,000 acres]

| Fertilizer | Trade Name | Total Acreage Receiving Material[1] | Average Applications Per Acre | Average Application Rate | Application Rate Per Crop Year | Total Quantity Applied |
|---|---|---|---|---|---|---|
| | | *Percent* | *Number* | *Pounds/ Acre* | *Pounds/ Acre* | *Million Pounds* |
| Nitrogen | N | 100 | 2.5 | 86 | 214 | 7.9 |
| Phosphate | P | 100 | 1.2 | 130 | 161 | 5.9 |
| Potash | K | 95 | 1.7 | 126 | 219 | 7.7 |

[1]Refers to acres receiving one or more applications of a specific fertilizer ingredient.

## Fall Potato Chemical Usage 1992

| Active Ingredient | Trade Name | Total Acreage Receiving Material[1] | Average Applications Per Acre | Average Application Rate | Application Rate Per Crop Year | Total Quantity Applied |
|---|---|---|---|---|---|---|
| | | *Percent* | *Number* | *Pounds/ Acre* | *Pounds/ Acre* | *1,000 Pounds* |
| **Herbicides**[2] | | | | | | |
| Linuron | Linex/Lorox | 43 | 1.2 | 0.61 | 0.70 | 11 |
| Metolachlor | Dual | 30 | 1.0 | 1.50 | 1.50 | 17 |
| Metribuzin | Lexone/Sencor | 34 | 1.1 | 0.36 | 0.39 | 5 |
| **Insecticides**[3] | | | | | | |
| Azinphos-Methyl | Guthion | 49 | 1.4 | 0.35 | 0.49 | 9 |
| Carbaryl | Savit/Sevin | 25 | 1.5 | 0.66 | 0.97 | 9 |
| Cyromazine | Trigard | 12 | 1.1 | 0.33 | 0.37 | 2 |
| Endosulfan | Thiodan | 47 | 1.4 | 0.81 | 1.14 | 20 |
| Esfenvalerate | Asana | 30 | 1.2 | 0.04 | 0.05 | 1 |
| Methamidophos | Monitor | 35 | 1.1 | 0.95 | 1.02 | 13 |
| Methyl Parathion | Several | 27 | 2.8 | 0.91 | 2.57 | 26 |
| Permethrin | Ambush/Pounce | 13 | 1.0 | 0.17 | 0.17 | 1 |
| Phorate | Thimet | 16 | 1.0 | 2.46 | 2.46 | 14 |
| Phosmet | Imidan | 52 | 1.8 | 0.93 | 1.62 | 31 |
| Piperonyl Butoxide | Butacide/Incite/PBO-8 | 45 | 2.3 | 0.44 | 1.00 | 17 |
| **Fungicides**[4] | | | | | | |
| Chlorothalonil | Bravo | 9 | 1.6 | 0.95 | 1.49 | 5 |
| Copper Hydroxide | Several | 9 | 1.3 | 0.62 | 0.79 | 3 |
| Mancozeb | Several | 79 | 3.7 | 1.24 | 4.61 | 135 |
| Maneb | Several | 9 | 1.4 | 1.50 | 2.14 | 7 |
| Metalaxyl | Ridomil | 22 | 1.3 | 0.15 | 0.20 | 2 |
| **Other Chemicals**[5] | | | | | | |
| Diquat | Diquat | 53 | 1.1 | 0.32 | 0.36 | 7 |

[1]Refers to acres receiving one or more applications of a specific pesticide active ingredient.
[2]Insufficient reports to publish State level estimates for the following herbicides: Bentazon, EPTC, Glyphosate, Pendimethalin, and Sethoxydim.
[3]Insufficient reports to publish State level estimates for the following insecticides: Carbofuran, Dimethoate, Disulfoton, Ethoprop, Malathion, and Oxamyl.
[4]Insufficient reports to publish State level estimates for the following fungicides: Copper Ammonium, Iprodione, Metiram.
[5]Insufficient reports to publish State level estimates for the following other chemicals: Chloropicrin, Dichloropropene, Maleic Hydrazide, and Metam-Sodium.

# Income and Prices

Cash receipts from 1992 marketings of Michigan crops, livestock and livestock products totaled nearly $3.24 billion. Total cash receipts were up five percent from the previous year. Crop cash receipts were up nearly nine percent from 1991 to $1.95 billion. Increases in production for small grain crops, some fruits and vegetables contributed to raising this year's receipts. Livestock cash receipts were essentially unchanged from 1991 at $1.29 billion. Decreasing market prices for cattle and hogs combined with decreasing marketings of hogs led to a second straight year of low receipts. Michigan placed 22nd nationally in total cash receipts. The cash receipts data provide only a partial picture of the farm income situation. To arrive at net farm income, components such as farm production expenses, government payments, net changes in farmer owned commodity inventories, and other farm related income must be included.

Detailed 1992 farm expense data for Michigan will not be available until the later part of 1993. Preliminary U.S. data shows that farmers saw prices of some of their products decline. All livestock products cash receipts dropped with the exception of dairy products while the majority of the cash receipts for crops increased in 1992. The farm value of foods sold in grocery stores, was 2.5 percent lower than 1991. Meat, poultry products, and oranges showed the major decline while milk, cereals and baked goods help offset the some of the decline by rising farm value.

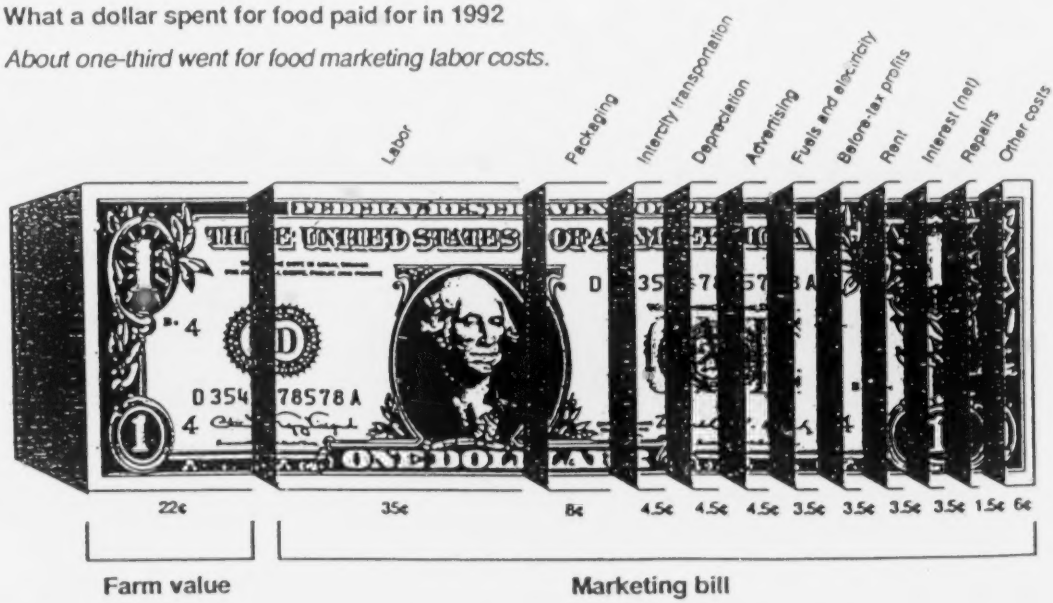
# Farm Income

Statistics on 1992 Michigan net farm income and farm financial status will be published in the fall of 1993, too late to be included in this bulletin. Tables in this section provide updated income and finance statistics for the years 1987 through 1991. The overall farm financial situation showed some improvement during 1991. Total farm debt in Michigan declined by 1 percent from 1990. Total farm debt has fallen by one billion dollars (29 percent) from 1986 to 1991. The total value of farm assets during 1991, at $15.1 billion, was up one percent from 1990. All components of the farm assets showed a slight increase with the exception of livestock and poultry which declined four percent. The debt/assets ratio of 16.4 slightly improved over 1990's 16.7.

Net farm income in Michigan decreased by 17 percent during 1991 as total production expenses increased while total gross farm income decreased. Gross farm income, $3.64 billion, was down two percent from 1990. Cash income (receipts) from marketings of crops and livestock, at $3.08 billion, was down one percent. Farm production expenses totaled $2.87 billion, up three percent from a year earlier.

**What a dollar spent for food paid for in 1992**

*About one-third went for food marketing labor costs.*




Includes food eaten at home and away from home. Other costs include property taxes and insurance, accounting and professional services, promotion, bad debts, and many miscellaneous items.

## Michigan Farm Balance Sheet

[Excludes operator households]

| Item | 1991 | 1990 | 1989 | 1988 | 1987 |
|---|---|---|---|---|---|
| | | | *Million Dollars* | | |
| Total Farm Assets | **15,076.4** | 14,892.5 | 13,947.9 | 13,243.4 | 13,340.9 |
| Real estate | **10,228.9** | 10,114.9 | 9,308.4 | 8,783.9 | 8,921.2 |
| Livestock and poultry[1] | **995.5** | 1,033.8 | 981.9 | 878.1 | 875.1 |
| Machinery and motor vehicles[2] | **2,410.0** | 2,388.8 | 2,407.3 | 2,320.0 | 2,315.9 |
| Crops[3] | **602.1** | 532.8 | 471.6 | 500.9 | 503.7 |
| Financial assets | **839.9** | 822.2 | 778.7 | 760.6 | 724.9 |
| Total Farm Debt | **2,474.5** | 2,488.0 | 2,678.0 | 2,842.7 | 3,066.2 |
| Real estate debt | **1,351.1** | 1,368.0 | 1,491.9 | 1,620.7 | 1,780.1 |
| Nonreal estate debt[4] | **1,123.4** | 1120.0 | 1,186.1 | 1,222.0 | 1,286.1 |
| Equity | **12,601.9** | 12,404.5 | 11,270.0 | 10,400.7 | 10,274.6 |
| Debt/Assets Ratio | **16.4** | 16.7 | 19.2 | 21.5 | 23.0 |

[1] Excludes equine and broilers.
[2] Includes only farm share value for trucks and autos.
[3] All non-CCC crops held on farms plus the value above loan rate for crops held under CCC.
[4] Excludes debt for nonfarm purposes.

## Gross and Net Income, Michigan

| Item | 1991 | 1990 | 1989 | 1988 | 1987 |
|---|---|---|---|---|---|
| | | | *Million Dollars* | | |
| Gross farm income | **3,637.9** | 3,722.0 | 3,789.3 | 3,234.4 | 3,210.4 |
| Cash income | | | | | |
| Farm marketings | **3,081.1** | 3,126.5 | 2,936.5 | 2,756.5 | 2,628.9 |
| Crops | **1,793.4** | 1,719.6 | 1,625.2 | 1,546.5 | 1,346.4 |
| Livestock and products | **1,287.7** | 1,406.9 | 1,311.3 | 1,210.0 | 1,282.5 |
| Government payments | **123.7** | 168.8 | 262.0 | 303.0 | 391.1 |
| Farm-related income | **220.6** | 204.4 | 200.7 | 169.6 | 155.0 |
| Noncash income | | | | | |
| Value of home consumption | **13.9** | 16.1 | 15.2 | 20.5 | 17.5 |
| Rental value of dwellings | **144.5** | 143.1 | 133.9 | 128.9 | 121.8 |
| Value of inventory adjustment | **54.1** | 63.0 | 241.1 | -144.1 | -104.1 |
| Total production expense | **2,873.8** | 2,800.4 | 2,727.9 | 2,630.7 | 2,614.0 |
| *Net Farm Income*[1] | **764.1** | 921.7 | 1,061.4 | 603.8 | 596.3 |

[1] Includes farm operator dwellings located on farms.

## Income per Farm

| Year | Michigan | | United States | |
|---|---|---|---|---|
| | Gross Income | Net Income | Gross Income | Net Income |
| | *Dollars* | | *Dollars* | |
| **1991** | **67,369** | **14,150** | **90,019** | **21,191** |
| 1990 | 68,926 | 17,069 | 91,586 | 23,807 |
| 1989 | 68,896 | 19,298 | 88,054 | 22,981 |
| 1988 | 57,757 | 10,782 | 79,823 | 18,704 |
| 1987 | 56,323 | 10,461 | 76,139 | 17,950 |

## Cash Receipts from Marketings, Michigan

| Commodity | 1991 | 1990 | 1989 | 1988 | 1987 |
|---|---|---|---|---|---|
| | | | *1,000 Dollars* | | |
| **Livestock and Products** | | | | | |
| Dairy | **643,140** | 729,476 | 693,950 | 640,686 | 653,183 |
| Cattle and Calves | **284,605** | 275,323 | 269,283 | 258,869 | 297,368 |
| Hogs | **216,234** | 249,825 | 197,907 | 193,744 | 212,560 |
| Eggs | **62,587** | 68,074 | 68,338 | 47,237 | 54,648 |
| Sheep and Lambs | **3,956** | 4,029 | 4,882 | 4,564 | 5,813 |
| All Chickens | **1,308** | 2,726 | 3,592 | 2,988 | 2,664 |
| Turkeys | **49,350** | 51,127 | 42,630 | 31,920 | 28,620 |
| Honey | **4,369** | 4,480 | 3,998 | 3,676 | 2,883 |
| Aquaculture | **2,410** | 1,940 | 1,550 | – | – |
| Mink Pelts | **1,504** | 2,117 | 5,200 | 5,204 | (1) |
| Other Livestock | **18,240** | 17,770 | 19,969 | 21,108 | 24,717 |
| *Total Livestock & Products* | **1,287,703** | 1,406,887 | 1,311,299 | 1,209,996 | 1,282,456 |
| **Crops** | | | | | |
| Field Crops & Vegetables | | | | | |
| Corn | **393,165** | 345,987 | 276,843 | 255,435 | 218,283 |
| Dry Edible Beans | **83,196** | 116,041 | 83,228 | 56,613 | 79,116 |
| Soybeans | **266,256** | 229,105 | 211,125 | 266,735 | 184,115 |
| Sugarbeets | **98,546** | 125,088 | 107,474 | 86,148 | 87,330 |
| Wheat | **75,952** | 83,448 | 120,105 | 83,478 | 56,304 |
| Potatoes | **71,221** | 71,862 | 72,247 | 54,018 | 53,116 |
| Hay | **83,464** | 83,826 | 93,011 | 98,781 | 66,420 |
| Oats | **6,999** | 9,857 | 15,849 | 12,321 | 17,202 |
| Mushrooms | **21,717** | 19,800 | 20,301 | 20,754 | 18,573 |
| Mint | **1,750** | 1,162 | 976 | 598 | 650 |
| Rye | **393** | 611 | 768 | 973 | 815 |
| Barley | **1,578** | 2,666 | 2,603 | 2,132 | 2,639 |
| Vegetables | **170,663** | 170,021 | 166,883 | 160,551 | 148,481 |
| Other Crops[2] | **10,634** | 11,590 | 10,763 | 11,940 | 12,910 |
| Fruit | | | | | |
| Apples | **99,169** | 86,286 | 77,505 | 75,818 | 79,182 |
| Cherries | **67,961** | 36,433 | 37,090 | 51,254 | 35,326 |
| Grapes | **12,926** | 13,372 | 11,415 | 13,548 | 15,609 |
| Peaches | **6,978** | 9,447 | 10,490 | 8,028 | 9,600 |
| Strawberries | **6,430** | 7,215 | 5,736 | 6,081 | 7,022 |
| Pears | **1,363** | 668 | 2,047 | 1,445 | 1,884 |
| Prunes & Plums | **2,786** | 1,778 | 2,281 | 2,173 | 2,304 |
| Other Fruit[3] | **44,480** | 34,560 | 41,785 | 36,335 | 37,065 |
| Other Products[4] | | | | | |
| Greenhouse and Nursery | | | | | |
| Ornamentals | **265,742** | 258,751 | 254,639 | 241,370 | 212,458 |
| *Total Crops* | **1,793,369** | 1,719,574 | 1,625,164 | 1,546,529 | 1,346,404 |
| *Total Cash Receipts* | **3,081,072** | 3,126,461 | 2,936,463 | 2,756,525 | 2,628,860 |

[1] Not included in total for 1987.
[2] Includes seed crops, maple syrup, miscellaneous field crops.
[3] Includes apricots, blueberries, brambles and nectarines.
[4] Forestry products receipts no longer counted as cash receipts, but are included in the other farm-related income component of gross farm income.

## Government Payments, Michigan

[Includes both cash payments and payment-in-kind (PIK)]

| Program | 1991 | 1990 | 1989 | 1988 | 1987 |
|---|---|---|---|---|---|
| | | | *1,000 Dollars* | | |
| Conservation Programs | **17,633** | 16,996 | 15,433 | 11,969 | 12,945 |
| Wheat Programs | **20,238** | 25,576 | 6,385 | 19,066 | 31,655 |
| Feed Grain Programs | **79,344** | 84,258 | 98,903 | 216,887 | 247,473 |
| Misc. Programs[1] | **6,476** | 42,001 | 141,250 | 55,103 | 99,070 |
| *Total* | **123,691** | 168,831 | 261,971 | 303,025 | 391,143 |

[1] Programs included are Wool Act, Water and Lakes, Animal Waste Management, Forest Incentative, Dairy Imdemnity, Dairy Termination, Emergy Feed Extended Storage, PIK Storage, Milk Diversion, Disaster Programs (crops and non-crops), Warehouse Storage Deduction, Livestock Emergency Assistance, Interest Penalty Payments, Disaster and Loan Deficiency.

# Farm Expenses

## Prices Paid by Michigan Farmers: Annual Averages

[The National Agricultural Statistics Service in February 1986, reduced the monthly Prices Paid by Farmers Surveys to a quarterly basis due to budget reductions. Starting in 1986 Prices Paid by Michigan Farmers are not available and only national or regional estimates are published.]

| Commodity | Unit | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|---|
| | | | | *Dollars* | | |
| Framing lumber, 2"x4" fir | M bd. ft. | **466.00** | 414.00 | 339.00 | 404.00 | 392.00 |
| Roofing gal. steel, 28-29 Ga. | 100 sq. ft. | **46.40** | 46.00 | 45.70 | 44.00 | 43.00 |
| Plywood, 1/2" C-D-X, 4'x8' | Sheet | **12.50** | 10.20 | 10.10 | 10.50 | 9.49 |
| Post, steel | Each | **2.62** | 2.65 | 2.65 | 2.61 | 2.48 |
| Dairy feed, 16% protein | Ton | **176.00** | 177.00 | 184.00 | 190.00 | 184.00 |
| Hog conc., 38-42% protein | Ton[1] | **299.00** | 292.00 | 295.00 | 346.00 | 17.10 |
| Soybean meal, 44% protein | Cwt. | **11.70** | 11.40 | 11.60 | 14.40 | 14.70 |
| Gasoline, regular, bulk | Gallon | **1.16** | 1.22 | 1.20 | 1.09 | 0.96 |
| Diesel fuel | Gallon | **0.86** | 0.92 | 0.97 | 0.80 | 0.77 |
| Motor oil, HD, detergent | Gallon | **5.28** | 5.22 | 4.89 | 4.73 | 4.70 |
| Truck tire, 7.50-16, load range D | Each | **83.50** | 81.20 | 79.40 | 78.40 | 74.30 |
| Tractor tire, 18.4-38, 6 ply | Each | **475.00** | 459.00 | 447.00 | 433.00 | 412.00 |
| Tractors: 110-129 hp. | Each | **49,900.00** | 47,500.00 | 45,750.00 | 43,900.00 | 40,800.00 |
| 170-240 hp. 4-wd | Each | **84,400.00** | 82,000.00 | 79,750.00 | 79,600.00 | 76,050.00 |
| Corn planter, 4-row[2] | Each | **12,000.00** | 11,200.00 | 10,700.00 | 10,100.00 | 9,800.00 |
| Plows, 1-way: 5 bottom | Each | **9,280.00** | 8,510.00 | 8,245.00 | 7,830.00 | 7 365.00 |
| Grain drill, 15-17 tube | Each | **6,970.00** | 6,805.00 | 6,550.00 | 6,345.00 | 6,050.00 |
| Fertilizer, grade 5-20-20 | Ton | **154.00** | 170.00 | 162.00 | 167.00 | 169.00 |
| Fertilizer, grade 12-12-12 | Ton | **168.00** | 168.00 | 170.00 | 165.00 | 164.00 |
| Fertilizer, grade 18-46-0 | Ton | **216.00** | 234.00 | 225.00 | 238.00 | 250.00 |
| Anhydrous Ammonia | Ton | **199.00** | 201.00 | 196.00 | 200.00 | 198.00 |
| 2,4-D, 4 lb./gal. emul. | 5 gallon | **58.50** | 56.50 | 54.10 | 52.10 | 50.60 |
| Atrazine, WP, 80% | 5 lb. | **13.90** | 13.00 | 11.70 | 10.80 | 9.11 |
| Lasso, 4 lb./gal. emul. | 5 gallon | **127.00** | 123.00 | 114.00 | 108.00 | 102.00 |
| Bladex, 4 lb./gal. liquid | Gallon | **23.30** | 22.60 | 21.70 | 20.10 | 19.10 |
| Dual, 8 lb./gal. emul. | Gallon | **61.50** | 59.90 | 55.50 | 52.90 | 49.70 |
| Treflan, 4 lb./gal. emul. | 5 gallon | **160.00** | 150.00 | 134.00 | 132.00 | 129.00 |

[1] Cwt. for 1988.
[2] With fertilizer attachment.

## Michigan Farm Production Expenses

| Item | 1991 | 1990 | 1989 | 1988 | 1987 |
|---|---|---|---|---|---|
| | | | *Million Dollars* | | |
| Feed | **246.2** | 268.8 | 296.1 | 294.4 | 256.8 |
| Livestock and Poultry | **70.9** | 44.4 | 37.6 | 37.1 | 35.4 |
| Seed | **130.9** | 117.8 | 117.1 | 110.6 | 107.3 |
| Fertilizer and lime | **201.9** | 189.7 | 191.0 | 189.3 | 186.6 |
| Pesticides | **161.3** | 146.1 | 138.9 | 116.9 | 115.3 |
| Fuel and oil | **126.3** | 132.2 | 110.6 | 113.0 | 113.6 |
| Electricity | **53.2** | 53.1 | 54.5 | 49.1 | 46.2 |
| Repair and maintenance | **214.7** | 214.7 | 204.7 | 193.9 | 190.1 |
| Other miscellaneous | **360.8** | 337.7 | 325.8 | 300.2 | 321.1 |
| Real estate interest | **151.4** | 157.4 | 162.5 | 171.8 | 190.8 |
| Nonreal estate interest | **125.0** | 128.4 | 128.6 | 133.2 | 145.7 |
| Contract and hired labor expenses | **269.1** | 269.6 | 239.2 | 224.3 | 212.8 |
| Net rent to nonoperator landlords | **3.9** | 3.1 | 5.5 | 8.6 | 1.0 |
| Capital consumption | **477.6** | 473.8 | 473.3 | 461.1 | 460.7 |
| Property taxes | **288.5** | 263.5 | 242.4 | 227.1 | 230.5 |
| *Total Production Expenses* | **2,873.8** | 2,800.4 | 2,727.9 | 2,630.7 | 2,614.0 |

# Prices Received by Farmers

## Prices Received for the 1991 Marketing Year

| Year Or Month | Corn per Bu. | Wheat per Bu. | Oats per Bu. | Soybeans per Bu. | Dry Beans per Cwt. | Navy Beans per Cwt. | Potatoes per Cwt. | All Hay per Ton | Alfalfa Hay per Ton |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Dollars* | | | | |
| 1991 June | – | – | – | – | – | – | – | 58.00 | 60.00 |
| July | – | 2.50 | 1.36 | – | – | – | 9.20 | 53.00 | 55.00 |
| August | – | 2.72 | 1.30 | – | – | – | 6.25 | 63.00 | 65.00 |
| September | – | 2.93 | 1.33 | 5.61 | 16.00 | 15.20 | 5.50 | 59.00 | 60.00 |
| October | 2.29 | 3.15 | 1.49 | 5.48 | 16.40 | 14.80 | 5.60 | 64.00 | 65.00 |
| November | 2.27 | 3.31 | 1.37 | 5.36 | 14.70 | 13.30 | 5.75 | 74.00 | 75.00 |
| December | 2.26 | 3.59 | 1.48 | 5.39 | 13.80 | 12.10 | 6.00 | 64.00 | 65.00 |
| 1992 January | 2.36 | 3.79 | 1.60 | 5.49 | 15.10 | 14.60 | 6.00 | 59.00 | 60.00 |
| February | 2.42 | 3.99 | 1.73 | 5.50 | 14.60 | 14.00 | 6.10 | 64.00 | 65.00 |
| March | 2.47 | 3.57 | 1.78 | 5.58 | 15.10 | 14.80 | 6.40 | 68.00 | 70.00 |
| April | 2.46 | 3.63 | 1.79 | 5.61 | 16.80 | 14.70 | 6.70 | 78.00 | 80.00 |
| May | 2.45 | 3.38 | 1.83 | 5.83 | 15.40 | 14.50 | 7.25 | 83.00 | 85.00 |
| June | 2.42 | 2.98 | 1.76 | 5.78 | 15.20 | 15.10 | – | – | – |
| July | 2.31 | – | – | 5.54 | 17.00 | 16.10 | – | – | – |
| August | 2.20 | – | – | 5.34 | 20.20 | 20.20 | – | – | – |
| September | 2.18 | – | – | – | – | – | – | – | – |
| Marketing Year Avg. | | | | | | | | | |
| 1992[1] | 2.00 | 3.05 | 1.65 | 5.45 | 24.00 | – | 6.30 | 76.00 | 77.50 |
| 1991 | 2.34 | 2.84 | 1.51 | 5.52 | 15.90 | – | 6.15 | 64.00 | 65.50 |
| 1990 | 2.21 | 2.40 | 1.21 | 5.63 | 18.20 | – | 6.60 | 63.00 | 65.00 |
| 1989 | 2.28 | 3.63 | 1.46 | 5.60 | 26.30 | – | 8.20 | 69.00 | 71.00 |
| 1988 | 2.53 | 3.59 | 2.65 | 7.28 | 31.90 | – | 7.30 | 94.00 | – |
| 1987 | 1.97 | 2.63 | 1.59 | 5.62 | 14.80 | – | 5.10 | 60.50 | – |

[1]Preliminary prices.

## Preliminary Prices Received for the 1992 Marketing Year

| Year Or Month | Corn per Bu. | Wheat per Bu. | Oats per Bu. | Soybeans per Bu. | Dry Beans per Cwt. | Navy Beans per Cwt. | Potatoes per Cwt. | All Hay per Ton | Alfalfa Hay per Ton |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Dollars* | | | | |
| 1992 June | – | – | – | – | – | – | – | 68.00 | 70.00 |
| July | – | 3.04 | 1.78 | – | – | – | – | 73.00 | 75.00 |
| August | – | 2.97 | 1.52 | – | – | – | 5.85 | 68.00 | 70.00 |
| September | – | 3.08 | 1.58 | 5.25 | 23.20 | 23.20 | 5.90 | 69.00 | 70.00 |
| October | 2.10 | 3.11 | 1.69 | 5.36 | 23.80 | 22.20 | 5.85 | 79.00 | 80.00 |
| November | 1.96 | 3.16 | 1.76 | 5.36 | 24.40 | 21.60 | 6.30 | 84.00 | 85.00 |
| December | 1.91 | 3.18 | 1.53 | 5.54 | 24.20 | 21.30 | 6.20 | 89.00 | 90.00 |
| 1993 January | 1.94 | 3.38 | 1.67 | 5.58 | 21.30 | 20.10 | 6.55 | 84.00 | 85.00 |
| February | 1.79 | 3.34 | 1.76 | 5.47 | 21.20 | 19.00 | 6.75 | 74.00 | 75.00 |
| March | 1.85 | 3.26 | 1.61 | 5.52 | 21.80 | 17.40 | 7.50 | 78.00 | 80.00 |
| April | 1.97 | 3.20 | 1.70 | 5.68 | 18.20 | 16.10 | 8.05 | 84.00 | 85.00 |
| May | 1.96 | 3.07 | 1.73 | 5.80 | 17.70 | 15.70 | 8.95 | 84.00 | 85.00 |
| June | 1.91 | 2.91 | 1.69 | 6.00 | 15.50 | 14.80 | – | 59.00 | 60.00 |
| July | | | | | | | | 54.00 | 55.00 |
| August | | | | | | | | | |
| September | | | | | | | | | |

## Price Recived for Livestock and Livestock Products
## Price received for the 1992 Marketing

| Year or Month | All Hogs per Cwt.[1] | Beef Cattle per Cwt.[2] | Cows per Cwt.[3] | Steers & Heifers per Cwt. | Milk Cows per Head[4] | Calves per Cwt. | Table Eggs per Doz[1] | All Milk Wholesale per Cwt. |
|---|---|---|---|---|---|---|---|---|
| | *Dollars* | | | | | | *Cents* | *Dollars* |
| 1991 December | 37.60 | – | – | | | | | |
| 1992 January | 35.80 | 55.50 | 47.10 | 62.90 | 1,140 | 88.30 | 57 | 13.80 |
| February | 39.10 | 59.00 | 46.50 | 66.10 | – | 95.00 | 38 | 13.30 |
| March | 37.70 | 61.70 | 46.90 | 67.50 | – | 97.00 | 32 | 12.60 |
| April | 40.00 | 61.20 | 51.60 | 67.10 | 1,160 | 97.90 | 37 | 12.60 |
| May | 43.90 | 62.20 | 47.20 | 67.40 | – | 89.70 | 38 | 13.00 |
| June | 45.70 | 59.90 | 48.90 | 65.30 | – | 83.50 | 31 | 13.30 |
| July | 41.50 | 59.00 | 46.70 | 64.90 | 1,200 | 91.60 | 31 | 13.50 |
| August | 41.60 | 60.70 | 47.80 | 65.20 | – | 82.10 | 40 | 13.40 |
| September | 40.20 | 59.40 | 48.20 | 65.60 | – | 89.60 | 38 | 13.60 |
| October | 43.00 | 58.60 | 47.50 | 65.70 | 1,190 | 84.90 | 45 | 13.50 |
| November | 39.90 | 56.80 | 46.00 | 65.20 | – | 71.10 | 38 | 13.30 |
| December | | 60.10 | 45.60 | 67.70 | – | 81.40 | 47 | 13.10 |
| Marketing Year Avg. | | | | | | | | |
| 1992 | 40.00 | 59.30 | 47.30 | 65.90 | 1,170 | 88.10 | 64 | 13.30 |
| 1991 | 47.10 | 60.80 | 48.90 | 68.00 | 1,160 | 98.20 | 53 | 12.40 |
| 1990 | 52.30 | 63.20 | 51.30 | 70.80 | 1,200 | 99.00 | 57 | 14.10 |
| 1989 | 41.50 | 58.50 | 47.60 | 66.90 | 1,060 | 93.70 | 56 | 13.60 |
| 1988 | 41.50 | 56.10 | 45.80 | 64.00 | 990 | 85.40 | 37 | 12.40 |

[1]Hog and egg prices pertain to marketing year of previous December through November.
[2]Combined price for "Cows" and "Steers and Heifers."
[3]Beef cows and cull dairy cows sold for slaughter.
[4]Sold for dairy herd replacement only. Price series changed to quarterly, January 1982.

## Preliminary Prices Received for the 1993 Marketing Year

| Year or Month | All Hogs per Cwt. | Beef Cattle per Cwt. | Cows per Cwt. | Steers & Heifers per Cwt. | Milk Cows per Head | Calves per Cwt. | Table Eggs per Doz. | All Milk Wholesale per Cwt. |
|---|---|---|---|---|---|---|---|---|
| | *Dollars* | | | | | | *Cents* | *Dollars* |
| 1992 December | 41.10 | 60.10 | 47.10 | 67.70 | – | 81.40 | 47 | 13.10 |
| 1993 January | 39.90 | 61.50 | 49.50 | 69.40 | 1,200 | 85.90 | 46 | 12.80 |
| February | 43.10 | 62.30 | 50.00 | 70.00 | – | 93.30 | 42 | 12.60 |
| March | 45.10 | 62.70 | 47.70 | 71.70 | – | 102.00 | 60 | 12.40 |
| April | 44.10 | 63.70 | 47.50 | 72.40 | 1,190 | 97.90 | 51 | 12.70 |
| May | 45.90 | 65.30 | 49.70 | 72.60 | – | 103.00 | 40 | 13.20 |
| June | 47.80 | 64.80 | 50.60 | 71.50 | – | 101.00 | 50 | 13.80 |
| July | | | | | | | | |
| August | | | | | | | | |
| September | | | | | | | | |
| October | | | | | | | | |
| November | | | | | | | | |
| December | | | | | | | | |

# Farm Labor

The purpose of the Agricultural Labor Survey is to provide state, regional and national estimates of the number of farm workers, hours worked, and wage rates by type of worker and method of pay.

Beginning in April 1991, state level estimates of the number of all hired workers, their average hours worked during the survey week and average wage rates became available for the months of January, plus April through October. Due to budget constraints, the Labor Survey once again became a quarterly survey beginning in January 1993.

Data from this survey are used to compute income components of the Gross Domestic Product for the farm sector. These data are further used as a component of the Parity Index, and to determine the number of replenishment workers that can be admitted into the U.S. to offset any farm labor shortage. Wage data collected is used to establish minimum wage rates for domestic and foreign agricultural workers.

## Michigan Farm Labor

| Year & Month | Number of Workers | | Hours Worked-Hired | Wage Rates | | | |
|---|---|---|---|---|---|---|---|
| | All Farm Workers | Hired Farm Workers | | All Hired Workers | Field Workers | Field & Livestock Workers | Hourly Wage |
| | | | | *Dollars Per Hour* | | | |
| 1992 | | | | | | | |
| January | (1) | 15,000 | (1) | 6.26 | (1) | (1) | (1) |
| April | 77,000 | 20,000 | 41.6 | 6.34 | 5.27 | 5.73 | 5.62 |
| May | (1) | 26,000 | 37.5 | 6.17 | 5.39 | 5.29 | 5.10 |
| June | (1) | 37,000 | 33.1 | 6.14 | 5.82 | 5.71 | 5.51 |
| July | 75,000 | 22,000 | 35.0 | 5.68 | 5.29 | 5.28 | 5.31 |
| August | (1) | 24,000 | 32.4 | 5.90 | 5.79 | 5.67 | 5.56 |
| September | (1) | 20,000 | 35.6 | 5.55 | 5.62 | 5.45 | 5.54 |
| October | 90,000 | 32,000 | 38.9 | 6.42 | 6.40 | 6.32 | 6.22 |
| **1993** | | | | | | | |
| **January** | **59,000** | **14,000** | **38.2** | **6.90** | **6.59** | **6.76** | **6.85** |
| **April** | **62,000** | **17,000** | **38.3** | **6.54** | **6.29** | **6.44** | **6.48** |
| **July** | **98,000** | **29,000** | **32.1** | **6.11** | **5.83** | **5.70** | **5.75** |
| **October** | | | | | | | |

(1) Not published.

# Field Crops



Production of field crops for food and livestock feed remains the cornerstone of Michigan agriculture. The value of field crops at the farm level during 1992 was $1.95 billion, up nine percent from 1991. Michigan ranked in the top ten states in the production of alfalfa hay, dry beans, potatoes, rye, oats, sugarbeets, spearmint, and maple syrup.

The 1992 crop year started out bad and conditions continued to deteriorate throughout the growing season. Following an abnormally warm winter, spring planting was delayed by above normal precipitation. The coolest summer on record since 1895 caused crop development to lag well behind the 30 year averages. This, combined with a cool wet fall, delayed harvest. Even though crop yields were above 1991, the quality of many crops was very poor.

Spring planting was behind normal in 1992 due to cool, wet weather across the state. Dry conditions in May allowed planting to progress but hampered germination in some parts of the state. On Memorial Day weekend, a hard frost hit a majority of the state causing damage to field crops. This seemed to set the stage for below average temperatures the rest of the summer. Early June remained mostly cool and dry. The dry spell ended mid-month with a storm that brought high winds, tornadoes and a small amount of rain. Concerns were still high over the lack of moisture, cool temperatures and lack of growing degree days received so far in 1992. July remained cool with temperatures across the state being reported at 3 to 6 degrees below normal. Growing degree days were one to two weeks behind normal. Continued cool and damp August weather kept crop progress well behind normal. September started out warmer and humid. The third week of the month brought temperatures above normal across the state and helped boost development of many crops. However, maturity levels of most crops still lagged two to four weeks behind normal. October started with warm days and cool nights, helping crop development and harvest activities in many areas of the state. Mid month saw the return of cold and wet weather which continued through December, allowing only brief opportunities to harvest the poor quality crops.

## United States Acreage and Production

| Crop | Area Harvested | | Unit | Yield per Acre | | Production | |
|---|---|---|---|---|---|---|---|
| | **1992** | 1991 | | **1992** | 1991 | **1992** | 1991 |
| | *1,000 Acres* | | | | | *1,000* | |
| Corn for grain | **72,144.0** | 68,847.0 | Bu. | **131.40** | 108.60 | **9,478,914** | 7,475,480 |
| Corn for silage | **6,009.0** | 6,101.0 | Ton | **14.50** | 13.20 | **86,861** | 80,543 |
| Oats | **4,492.0** | 4,806.0 | Bu. | **65.60** | 50.70 | **294,604** | 243,451 |
| Barley | **7,309.0** | 8,413.0 | Bu. | **62.40** | 55.20 | **456,348** | 464,326 |
| Wheat | **62,407.0** | 57,703.0 | Bu. | **39.40** | 34.30 | **2,458,830** | 1,981,139 |
| Winter | **41,893.0** | 39,406.0 | Bu. | **38.30** | 34.80 | **1,606,534** | 1,372,617 |
| Durum | **2,449.0** | 3,197.0 | Bu. | **39.70** | 32.50 | **97,196** | 103,957 |
| Other | **18,065.0** | 15,100.0 | Bu. | **41.80** | 33.40 | **755,100** | 504,565 |
| Rye | **406.0** | 396.0 | Bu. | **29.40** | 24.60 | **11,952** | 9,761 |
| Soybeans | **58,383.0** | 58,011.0 | Bu. | **37.60** | 34.20 | **2,196,504** | 1,986,539 |
| All Hay | **59,597.0** | 62,475.0 | Ton | **2.50** | 2.45 | **149,140** | 153,325 |
| Alfalfa | **24,159.0** | 25,585.0 | Ton | **3.30** | 3.28 | **79,652** | 83,795 |
| Other | **35,438.0** | 36,890.0 | Ton | **1.96** | 1.88 | **69,488** | 69,530 |
| Dry Beans[1] | **1,496.9** | 1,913.7 | Cwt. | **1,473.00** | 1,764.00 | **22,047** | 33,765 |
| All Potatoes | **1,302.3** | 1,374.4 | Cwt. | **316.00** | 304.00 | **411,636** | 417,622 |
| Sugarbeets | **1,411.3** | 1,386.7 | Ton | **20.40** | 20.30 | **28,848** | 28,203 |
| Peppermint oil | **111.6** | 113.7 | Lb. | **66.00** | 58.00 | **7,383** | 6,561 |
| Spearmint oil | **41.1** | 42.4 | Lb. | **89.00** | 73.00 | **3,640** | 3,108 |

[1] Yield per acre in pounds.

## Michigan Grain Storage

| Year | Off Farm | | On Farm Capacity |
|---|---|---|---|
| | Number of Facilities | Rated Capacity | |
| | | *1,000 Bushels* | |
| **1992** | **297** | **144,000** | **260,000** |
| 1991 | 300 | 141,000 | 260,000 |
| 1990 | 332 | 145,000 | 260,000 |
| 1989 | 325 | 161,000 | 270,000 |
| 1988 | 340 | 170,000 | 300,000 |

# Michigan Field Crop Acreage, Production, and Value

| Crop | Year | Acreage | | Production | | | Price Received[1] | Value Production |
|---|---|---|---|---|---|---|---|---|
| | | Planted | Harvested | Unit | Per Acre | Total | | |
| | | *1,000* | | | | *1,000* | *Dollars per Unit* | *1,000 Dollars* |
| Corn, all | **1992** | **2,700** | – | – | – | – | – | – |
| | 1991 | 2,600 | – | – | – | – | – | – |
| | 1990 | 2,400 | – | – | – | – | – | – |
| | 1989 | 2,300 | – | – | – | – | – | – |
| | 1988 | 2,100 | – | – | – | – | – | – |
| Corn, for grain | **1992** | – | **2,300** | Bu. | **105** | **241,500** | **2.00** | **483,000** |
| | 1991 | – | 2,300 | Bu. | 110 | 253,000 | 2.34 | 592,020 |
| | 1990 | – | 2,070 | Bu. | 115 | 238,050 | 2.21 | 526,091 |
| | 1989 | – | 1,970 | Bu. | 113 | 222,610 | 2.28 | 507,551 |
| | 1988 | – | 1,600 | Bu. | 70 | 112,000 | 2.53 | 283,360 |
| Corn, silage | **1992** | – | **330** | Ton | **11.0** | **3,630** | – | – |
| | 1991 | – | 285 | Ton | 14.0 | 3,990 | – | – |
| | 1990 | – | 280 | Ton | 14.5 | 4,060 | – | – |
| | 1989 | – | 300 | Ton | 13.0 | 3,900 | – | – |
| | 1988 | – | 450 | Ton | 7.5 | 3,375 | – | – |
| Winter Wheat | **1992** | **650** | **630** | Bu. | **56** | **35,280** | **3.05** | **107,604** |
| | 1991 | 570 | 560 | Bu. | 43 | 24,080 | 2.84 | 68,387 |
| | 1990 | 770 | 750 | Bu. | 55 | 41,250 | 2.40 | 99,000 |
| | 1989 | 660 | 640 | Bu. | 53 | 33,920 | 3.63 | 123,130 |
| | 1988 | 650 | 620 | Bu. | 42 | 26,040 | 3.59 | 93,484 |
| Oats | **1992** | **140** | **120** | Bu. | **70** | **8,400** | **1.65** | **13,860** |
| | 1991 | 150 | 120 | Bu. | 45 | 5,400 | 1.51 | 8,154 |
| | 1990 | 250 | 225 | Bu. | 58 | 13,050 | 1.21 | 15,791 |
| | 1989 | 330 | 300 | Bu. | 67 | 20,100 | 1.46 | 29,346 |
| | 1988 | 300 | 200 | Bu. | 30 | 6,000 | 2.65 | 15,900 |
| Barley | **1992** | **30** | **28** | Bu. | **62** | **1,736** | **2.20** | **3,819** |
| | 1991 | 35 | 33 | Bu. | 43 | 1,419 | 1.60 | 2,270 |
| | 1990 | 45 | 43 | Bu. | 60 | 2,580 | 1.68 | 4,334 |
| | 1989 | 45 | 40 | Bu. | 58 | 2,320 | 2.90 | 6,728 |
| | 1988 | 50 | 38 | Bu. | 32 | 1,216 | 3.30 | 4,013 |
| Rye | **1992** | **110** | **16** | Bu. | **31** | **496** | **2.00** | **992** |
| | 1991 | 125 | 18 | Bu. | 20 | 360 | 1.70 | 612 |
| | 1990 | 135 | 20 | Bu. | 29 | 580 | 1.65 | 957 |
| | 1989 | 120 | 25 | Bu. | 33 | 825 | 1.70 | 1,403 |
| | 1988 | 135 | 25 | Bu. | 26 | 650 | 2.70 | 1,755 |
| Soybeans | **1992** | **1,450** | **1,440** | Bu. | **33** | **47,520** | **5.45** | **258,984** |
| | 1991 | 1,400 | 1,390 | Bu. | 38 | 52,820 | 5.52 | 291,566 |
| | 1990 | 1,150 | 1,140 | Bu. | 38 | 43,320 | 5.63 | 243,892 |
| | 1989 | 1,100 | 1,080 | Bu. | 36 | 38,880 | 5.60 | 217,728 |
| | 1988 | 1,250 | 1,210 | Bu. | 29 | 35,090 | 7.28 | 255,455 |
| Dry Beans[2] | **1992** | **335** | **310** | Cwt. | **1,250** | **3,875** | **24.00** | **93,000** |
| | 1991 | 370 | 365 | Cwt. | 1,850 | 6,753 | 15.90 | 107,373 |
| | 1990 | 350 | 330 | Cwt. | 1,650 | 5,445 | 18.20 | 99,099 |
| | 1989 | 300 | 265 | Cwt. | 1,500 | 3,975 | 26.30 | 104,543 |
| | 1988 | 245 | 170 | Cwt. | 1,260 | 2,142 | 31.90 | 68,330 |

## Michigan Field Crop Acreage, Production and Value (Continued)

| Crop | Year | Acreage | | Production | | | Price Received[1] | Value of Production |
|---|---|---|---|---|---|---|---|---|
| | | Planted | Harvested | Unit | Per Acre | Total | | |
| | | *1,000* | | | | *1,000* | *Dollars per Unit* | *1,000 Dollars* |
| Sugarbeets | **1992** | **179** | **175** | Ton | **17.7** | **3,098** | (3) | (3) |
| | 1991 | 171 | 166 | Ton | 15.5 | 2,573 | 38.10 | 98,031 |
| | 1990 | 160 | 157 | Ton | 20.8 | 3,266 | 38.30 | 125,088 |
| | 1989 | 154 | 150 | Ton | 17.1 | 2,565 | 41.90 | 107,474 |
| | 1988 | 152 | 145 | Ton | 16.5 | 2,393 | 36.00 | 86,148 |
| Potatoes, all | **1992** | **49.5** | **48.0** | Cwt. | **290** | **13,920** | **6.30** | **87,840** |
| | 1991 | 47.0 | 45.0 | Cwt. | 257 | 11,715 | 6.15 | 71,882 |
| | 1990 | 46.0 | 44.0 | Cwt. | 272 | 12,115 | 6.60 | 79,990 |
| | 1989 | 43.5 | 40.0 | Cwt. | 241 | 9,650 | 8.20 | 79,498 |
| | 1988 | 46.5 | 43.0 | Cwt. | 220 | 9,440 | 7.30 | 68,923 |
| Potatoes, summer | **1992** | **12.5** | **12.0** | Cwt. | **260** | **3,120** | (3) | (3) |
| | 1991 | 12.0 | 12.0 | Cwt. | 250 | 2,875 | 6.00 | 18,400 |
| | 1990 | 12.0 | 11.5 | Cwt. | 250 | 2,875 | 6.45 | 18,544 |
| | 1989 | 10.5 | 10.0 | Cwt. | 230 | 2,300 | 8.20 | 18,860 |
| | 1988 | 10.5 | 9.0 | Cwt. | 180 | 1,620 | 6.10 | 9,882 |
| Potatoes, fall | **1992** | **37** | **36** | Cwt. | **300** | **10,800** | (3) | (3) |
| | 1991 | 35 | 34 | Cwt. | 260 | 8,840 | 6.05 | 53,482 |
| | 1990 | 34 | 33 | Cwt. | 280 | 9,240 | 6.65 | 61,446 |
| | 1989 | 33 | 30 | Cwt. | 245 | 7,350 | 8.25 | 60,638 |
| | 1988 | 36 | 34 | Cwt. | 230 | 7,820 | 7.55 | 59,041 |
| Hay, all | **1992** | – | **1,400** | Ton | **3.31** | **4,640** | **76.00** | **350,850** |
| | 1991 | – | 1,450 | Ton | 3.62 | 5,255 | 64.00 | 333,853 |
| | 1990 | – | 1,450 | Ton | 3.68 | 5,335 | 63.00 | 339,875 |
| | 1989 | – | 1,550 | Ton | 3.36 | 5,205 | 69.00 | 361,943 |
| | 1988 | – | 1,900 | Ton | 2.22 | 4,220 | 94.00 | 396,680 |
| Hay, alfalfa | **1992** | – | **1,150** | Ton | **3.60** | **4,140** | – | – |
| | 1991 | – | 1,200 | Ton | 3.90 | 4,680 | – | – |
| | 1990 | – | 1,250 | Ton | 3.90 | 4,875 | – | – |
| | 1989 | – | 1,300 | Ton | 3.60 | 4,680 | – | – |
| | 1988 | – | 1,300 | Ton | 2.60 | 3,380 | – | – |
| Hay, other | **1992** | – | **250** | Ton | **2.00** | **500** | – | – |
| | 1991 | – | 250 | Ton | 2.30 | 575 | – | – |
| | 1990 | – | 200 | Ton | 2.30 | 460 | – | – |
| | 1989 | – | 250 | Ton | 2.10 | 525 | – | – |
| | 1988 | – | 600 | Ton | 1.40 | 840 | – | – |
| Spearmint, for oil | **1992** | – | **2.9** | Lb. | **31** | **90** | **15.60** | **1,404** |
| | 1991 | – | 3.0 | Lb. | 36 | 108 | 16.20 | 1,750 |
| | 1990 | – | 2.2 | Lb. | 30 | 66 | 17.60 | 1,162 |
| | 1989 | – | 1.9 | Lb. | 32 | 61 | 16.00 | 976 |
| | 1988 | – | 1.5 | Lb. | 24 | 36 | 16.60 | 598 |
| Maple Syrup[4] | **1993** | – | – | Gal. | – | **75** | **26.60** | **1,995** |
| | 1992 | – | – | Gal. | – | 85 | 29.80 | 2,533 |

[1] Marketing year average.
[2] Yield per acre in pounds.
[3] Not available at publication time.
[4] Estimates began with 1992 season.

# Corn

Corn was Michigan's number one crop in acreage planted, acreage harvested, and in value of production during 1992. The 1992 corn for grain crop was valued at $483 million, down 18 percent from 1991. Corn planted for all purposes, at 2.7 million acres, increased 4 percent, while acreage harvested for grain remained unchanged at 2.3 million acres. The average yield for grain fell 5 bushels from last year, to 105 bushels per acre. Grain prices averaged $2.00 per bushel, down 34 cents from last season's average price. The 1992 acreage harvested for silage increased 45,000 acres from 1991, but yields fell three tons to 11 tons per acres.

In 1992, Michigan experienced one of it's coldest summers since at least 1895. The lack of growing degree days slowed crop development all season. A wet fall hampered harvest activities. At the end of the year the corn crop was only 70 percent harvested. The remainder was harvested in the winter and spring of 1993. The crop in many areas was harvested at high moisture levels and produced low test weights when dried.

In 1992, Lenawee county took over the lead in corn for grain production, followed by St. Joseph, Branch, Huron, and Allegan counties. Michigan ranked eleventh nationally in grain production and eighth in silage production. U.S. Corn for grain production was up 27 percent from the 1991 crop, setting a record high. The U.S. yield rose over 22 bushels per acre to 131.4 bushels per acre.

## Grain Corn Acreage, Yield, Production

| Year | Acres Harvested | Yield Per Acre | Production |
|---|---|---|---|
| | *1,000* | *Bushels* | *1,000 Bushels* |
| **1992** | **2,300** | **105** | **241,500** |
| 1991 | 2,300 | 110 | 253,000 |
| 1990 | 2,070 | 115 | 238,050 |
| 1989 | 1,970 | 113 | 222,610 |
| 1988 | 1,600 | 70 | 112,000 |

## Corn Silage Acreage, Yield, Production

| Year | Acres Harvested | Yield Per Acre | Production |
|---|---|---|---|
| | *1,000* | *Tons* | *1,000 Tons* |
| **1992** | **330** | **11.0** | **3,630** |
| 1991 | 285 | 14.0 | 3,990 |
| 1990 | 280 | 14.5 | 4,060 |
| 1989 | 300 | 13.0 | 3,900 |
| 1988 | 450 | 7.5 | 3,375 |

## Grain Corn Stocks by Quarter

| Crop Year | December 1 | | March 1 | | June 1 | | September 1 | |
|---|---|---|---|---|---|---|---|---|
| | On Farm | Off Farm | On Farm | Off Farm | On Farm | Off Farm | On Farm | Off Farm |
| | *1,000 Bushels* | | | | | | | |
| **1992** | **230,000** | **16,423** | **85,000** | **43,086** | **53,000** | **25,596** | | |
| 1991 | 170,000 | 68,184 | 80,000 | 54,135 | 47,000 | 31,150 | 15,000 | 11,408 |
| 1990 | 160,000 | 59,057 | 90,000 | 41,445 | 60,000 | 37,142 | 24,000 | 15,948 |
| 1989 | 135,000 | 67,930 | 85,000 | 37,938 | 43,000 | 23,622 | 19,500 | 10,242 |
| 1988 | 110,000 | 70,837 | 71,000 | 56,216 | 50,000 | 34,241 | 23,000 | 20,231 |

## Corn for Grain: Row Width

| Year | Number Of Samples | Row Width, Inches[1] | | | | | | | Average Row Width |
|---|---|---|---|---|---|---|---|---|---|
| | | 30.5 or Less | 30.6 - 32.5 | 32.6 - 34.5 | 34.6 - 36.5 | 36.6- 38.5 | 38.6- 40.5 | 40.6 or Greater | |
| | | *Percent* | | | | | | | |
| **1992** | **86** | **52.3** | **25.6** | **3.5** | **3.5** | **12.8** | **2.3** | – | **31.6** |
| 1991 | 69 | 55.1 | 33.3 | 2.9 | 5.8 | 2.9 | – | – | 30.7 |
| 1990 | 84 | 59.9 | 21.4 | 2.4 | 9.5 | 6.0 | 1.2 | – | 31.2 |
| 1989 | 79 | 59.5 | 19.0 | 2.5 | 0.0 | 12.7 | 3.8 | 2.5 | 31.7 |
| 1988 | 79 | 55.6 | 20.3 | 2.5 | 6.3 | 8.9 | 5.1 | 1.3 | 31.8 |

[1]Spacing based on row measurements in plots selected for objective yeild samples.

# Soybeans

Soybeans continued to be the third leading field crop based on value of production, in Michigan agriculture. Only corn and hay have a larger value. Only corn had more acreage. The 1992 crop was valued at over $258 million. The production of just over 47.5 million bushels was the twelveth best nationally and accounted for 2.2 percent of the U.S. production. Yields fell to 33 bushels per acre, due to an unusually cool summer. A wet fall delayed harvest. Lenawee, Saginaw, Monroe, and Shiawassee continued to be the top counties in soybean production.

Soybeans are the most important U.S. oilseed. Soybean oil is used in cooking oil, margarine, paints, varnishes, adhesives, and many other products. Soybean meal is a primary protein source in livestock feed. One 60 pound bushel normally yields about 11 pounds of oil and 47 pounds of meal.

## Acreage, Yield, Production

| Year | Acres Harvested | Yield per Acre | Production |
|---|---|---|---|
| | *1,000* | *Bushels* | *1,000 Bushels* |
| **1992** | **1,440** | **33.0** | **47,500** |
| 1991 | 1,390 | 38.0 | 52,820 |
| 1990 | 1,140 | 38.0 | 43,320 |
| 1989 | 1,080 | 36.0 | 38,880 |
| 1988 | 1,210 | 29.0 | 35,090 |

## Soybeans Stocks By Quarter

| Crop Year | December 1 | | March 1 | | June 1 | | September 1 | |
|---|---|---|---|---|---|---|---|---|
| | On Farm | Off Farm | On Farm | Off Farm | On Farm | Off Farm | On Farm | Off Farm |
| | | | | *1,000 Bushels* | | | | |
| **1992** | **21,000** | **10,259** | **9,500** | **7,349** | **4,000** | **3,720** | | |
| 1991 | 16,000 | 15,717 | 9,000 | 9,506 | 2,800 | 4,861 | 1,200 | 2,614 |
| 1990 | 13,000 | 14,425 | 8,500 | 9,533 | 4,000 | 5,866 | 2,200 | 1,243 |
| 1989 | 11,500 | 12,951 | 8,000 | 6,002 | 2,800 | 3,663 | 1,000 | 980 |
| 1988 | 10,500 | 10,657 | 6,000 | 7,742 | 3,000 | 2,604 | 700 | 1,484 |

# Sugarbeets

Acres planted to sugarbeets in Michigan continued to rise in 1992, with 179,000 acres planted. This was the tenth straight year showing an increase in acreage and is the largest acreage planted since our records began in 1924. Harvested acreage was also at it's peak with 175,000 acres of beets being pulled in 1992. Yields, while still below normal, averaged 17.7 tons per acre, up 2.2 tons per acre from 1991. A dry spring caused some germination problems in sugarbeets. The cool summer and timely rains allowed adequate growth in many areas. However, a wet fall hampered harvest activities. Michigan remained the fifth largest producing state, and accounted for 11 percent of the U.S. production. Tuscola, Huron, and Bay are the three largest producing counties.

The value of production of the 1991 crop was worth over $98 million to Michigan farmers. This is a decline of 22 percent from 1990's record crop.

## Acreage, Yield, Production

| Year | Acres Harvested | Yield per Acre | Production |
|---|---|---|---|
| | *1,000* | *Tons* | *1,000 Tons* |
| **1992** | **175** | **17.7** | **3,098** |
| 1991 | 166 | 15.5 | 2,573 |
| 1990 | 157 | 20.8 | 3,266 |
| 1989 | 150 | 17.1 | 2,565 |
| 1988 | 145 | 16.5 | 2,393 |

# Dry Beans

Michigan dry bean production came in second, behind North Dakota , for 1992. Total production represented nearly 18 percent of the U.S. crop. The 1992 growing season for dry beans was cool and wet which slowed the development thus diminishing the condition of the crop. Unfavorable summer weather was followed by a window of opportunity to harvest ahead of normal in early October. This window was critical since the majority of the dry beans were just reaching maturity. Due to the poor growing conditions, the all dry bean yield dropped 600 pounds per acre from the record setting yield of 1991 to 1,250 pounds per acre for 1992.

Michigan continues to lead the country in Navy bean production accounting for 56 percent of the national total. Also, Michigan leads the nation in Cranberry and Black Turtle production. The fertile soils of the Bay-Thumb area and Saginaw Valley are particularly well suited for growing dry beans. Michigan dry beans are available world-wide and are especially popular in the United Kingdom. They are and will continue to be an important and valuable commodity to Michigan agriculture.

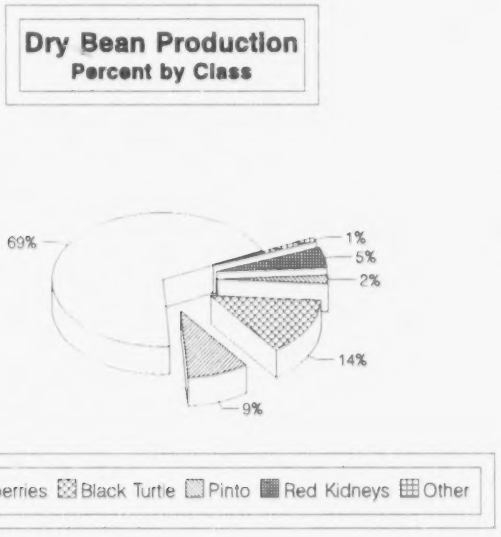
## Dry Bean Acreage, Yield, Production

| Kind | Year | Planted Acres | Harvested Acres | Yield per Acre | Production |
|---|---|---|---|---|---|
| | | *1,000* | *1,000* | *Pounds* | *1,000 Cwt.* |
| Navy | **1992** | **235.0** | **215.0** | **1,240** | **2,660** |
| | 1991 | 270.0 | 268.0 | 1,840 | 4,940 |
| | 1990 | 235.0 | 223.0 | 1,590 | 3,545 |
| | 1989 | 230.0 | 203.0 | 1,500 | 3,045 |
| All Red Kidney | 1989 | 17.5 | 15.0 | 1,470 | 220 |
| Lt. Red Kidney[1] | **1992** | **8.0** | **8.0** | **1,400** | **112** |
| | 1991 | 8.0 | 7.5 | 1,910 | 143 |
| | 1990 | 11.0 | 10.0 | 1,600 | 160 |
| Dk. Red Kidney[1] | **1992** | **9.0** | **7.0** | **930** | **65** |
| | 1991 | 17.0 | 16.0 | 1,660 | 265 |
| | 1990 | 9.0 | 8.0 | 1,880 | 150 |
| Cranberries | **1992** | **31.0** | **30.0** | **1,200** | **360** |
| | 1991 | 26.0 | 25.0 | 1,910 | 478 |
| | 1990 | 18.0 | 17.0 | 1,940 | 330 |
| | 1989 | 11.0 | 9.5 | 1,740 | 165 |
| Pinto | **1992** | **7.0** | **7.0** | **1,400** | **98** |
| | 1991 | 7.0 | 7.0 | 1,870 | 131 |
| | 1990 | 10.0 | 9.0 | 1,670 | 150 |
| | 1989 | 3.0 | 2.5 | 1,600 | 40 |
| Black Turtle | **1992** | **42.0** | **40.0** | **1,350** | **540** |
| | 1991 | 34.0 | 33.5 | 1,920 | 642 |
| | 1990 | 54.0 | 51.0 | 1,800 | 920 |
| | 1989 | 28.0 | 26.0 | 1,420 | 370 |
| Small White | **1992** | **1.5** | **1.5** | **1,200** | **18** |
| | 1991 | 6.0 | 6.0 | 1,920 | 115 |
| | 1990 | 9.0 | 8.0 | 1,630 | 130 |
| | 1989 | 9.0 | 8.0 | 1,500 | 120 |
| Others | **1992** | **1.5** | **1.5** | **1,470** | **22** |
| | 1991 | 2.0 | 2.0 | 1,950 | 39 |
| | 1990 | 4.0 | 4.0 | 1,500 | 60 |
| | 1989 | 1.5 | 1.0 | 1,500 | 15 |
| Total | **1992** | **335.0** | **310.0** | **1,250** | **3,875** |
| | 1991 | 370.0 | 365.0 | 1,850 | 6,753 |
| | 1990 | 350.0 | 330.0 | 1,650 | 5,445 |
| | 1989 | 300.0 | 265.0 | 1,500 | 3,975 |

[1]Estimates started in 1990.

**Dry Bean Stocks in Commercial Elevators**

| Year and Month | Navy | Other than Navy | Total |
|---|---|---|---|
| | | *1,000 Cwt.* | |
| December 31 | | | |
| **1992** . . . | **3,600** | **750** | **4,350** |
| 1991 . . . | 4,000 | 900 | 4,900 |
| 1990 . . . | 2,400 | 750 | 3,150 |
| 1989 . . . | 2,100 | 400 | 2,500 |
| 1988 . . . | 2,400 | 200 | 2,600 |
| August 31 | | | |
| **1992** . . . | **1,840** | **160** | **2,000** |
| 1991 . . . | 500 | 160 | 660 |
| 1990 . . . | 125 | 25 | 150 |
| 1989 . . . | 325 | 25 | 350 |
| 1988 . . . | 1,375 | 75 | 1,450 |




# Maple Syrup

Michigan maple syrup production was estimated at 75,000 gallons for the 1993 season. This estimate is 10,000 gallons below the 1992 estimate of 85,000 gallons. Michigan and Ohio rank fifth in the U.S. in maple syrup production. The average price per gallon was $26.60, compared to $29.80 last year. The total value of production was estimated at nearly $2 million, down 21 percent from last spring. The season was short throughout the state due to temperature fluctuations, which impacted the amount of sap collected.

The 1993 maple syrup production in the U.S., totaled 1.01 million gallons, down 39 percent from last spring. Production was down in nine of the ten states, with only Ohio showing an increase. The average price received by U.S. growers was $22.20 per gallon, down $1.60 per gallon from 1992. The crop was valued at $22.3 million, 43 percent below the 1992 crop. Vermont led the nation in production with 310,000 gallons produced, New York had a record low production of 180,000 gallons. Maine and Wisconsin followed with 113,000 and 105,000 gallons, respectively. In the northeast, weather conditions were too cold at the beginning of the season and too warm at the end. Deep snow throughout the season made gathering sap extremely difficult and discouraged tapping by many producers. Producers in the northeast were also hampered by a spring blizzard that broke off many tree limbs and damaged many plastic lines used in sap collection.

# Monthly Farm Marketings

## Corn

| Month | Crop Year | | | | |
|---|---|---|---|---|---|
| | 1991 | 1990 | 1989 | 1988 | 1987 |
| | *Percent* | | | | |
| October | 17 | 4 | 10 | 13 | 10 |
| November | 14 | 17 | 18 | 14 | 19 |
| December | 11 | 14 | 15 | 12 | 7 |
| January | 15 | 15 | 20 | 11 | 11 |
| February | 10 | 7 | 10 | 7 | 8 |
| March | 6 | 5 | 8 | 7 | 6 |
| April | 5 | 6 | 6 | 5 | 8 |
| May | 4 | 3 | 4 | 6 | 4 |
| June | 7 | 6 | 3 | 8 | 8 |
| July | 5 | 10 | 2 | 7 | 7 |
| August | 3 | 6 | 2 | 5 | 6 |
| September | 3 | 7 | 2 | 5 | 6 |

## Soybeans

| Month | Crop Year | | | | |
|---|---|---|---|---|---|
| | 1991 | 1990 | 1989 | 1988 | 1987 |
| | *Percent* | | | | |
| September | 8 | 1 | 3 | 3 | 3 |
| October | 28 | 28 | 27 | 24 | 24 |
| November | 11 | 17 | 17 | 21 | 26 |
| December | 10 | 9 | 10 | 18 | 9 |
| January | 12 | 12 | 13 | 10 | 13 |
| February | 8 | 9 | 6 | 4 | 5 |
| March | 5 | 5 | 7 | 6 | 6 |
| April | 3 | 5 | 5 | 3 | 4 |
| May | 5 | 3 | 4 | 4 | 4 |
| June | 6 | 4 | 3 | 4 | 3 |
| July | 2 | 4 | 3 | 2 | 1 |
| August | 2 | 3 | 2 | 1 | 1 |

## Dry Beans

| Month | Crop Year | | | | |
|---|---|---|---|---|---|
| | 1991 | 1990 | 1989 | 1988 | 1987 |
| | *Percent* | | | | |
| September | 27 | 22 | 15 | 15 | 3 |
| October | 13 | 17 | 34 | 26 | 29 |
| November | 2 | 8 | 10 | 11 | 15 |
| December | 4 | 6 | 7 | 4 | 9 |
| January | 13 | 8 | 10 | 7 | 7 |
| February | 6 | 6 | 8 | 7 | 5 |
| March | 7 | 5 | 5 | 9 | 4 |
| April | 6 | 8 | 2 | 3 | 7 |
| May | 5 | 9 | 4 | 7 | 6 |
| June | 9 | 6 | 2 | 3 | 5 |
| July | 3 | 3 | 2 | 6 | 7 |
| August | 5 | 2 | 1 | 2 | 3 |

## Wheat

| Month | Crop Year | | | | |
|---|---|---|---|---|---|
| | 1991 | 1990 | 1989 | 1988 | 1987 |
| | *Percent* | | | | |
| July | 48 | 20 | 34 | 41 | 44 |
| August | 18 | 26 | 36 | 20 | 19 |
| September | 8 | 9 | 7 | 12 | 19 |
| October | 5 | 5 | 4 | 5 | 3 |
| November | 4 | 3 | 3 | 3 | 3 |
| December | 5 | 6 | 4 | 6 | 3 |
| January | 6 | 7 | 4 | 6 | 3 |
| February | 3 | 6 | 3 | 2 | 2 |
| March | 1 | 5 | 2 | 2 | 1 |
| April | 1 | 5 | 1 | 1 | 1 |
| May | – | 4 | 1 | 1 | 1 |
| June | 1 | 4 | 1 | 1 | 1 |

## Oats

| Month | Crop Year | | | | |
|---|---|---|---|---|---|
| | 1991 | 1990 | 1989 | 1988 | 1987 |
| | *Percent* | | | | |
| July | 21 | 5 | 7 | 17 | 24 |
| August | 20 | 30 | 44 | 32 | 30 |
| September | 9 | 14 | 12 | 18 | 12 |
| October | 5 | 4 | 5 | 3 | 3 |
| November | 2 | 3 | 2 | 2 | 3 |
| December | 4 | 2 | 4 | 2 | 3 |
| January | 6 | 7 | 7 | 5 | 6 |
| February | 9 | 6 | 3 | 5 | 5 |
| March | 6 | 5 | 4 | 4 | 4 |
| April | 7 | 9 | 6 | 6 | 4 |
| May | 5 | 10 | 4 | 2 | 4 |
| June | 6 | 5 | 2 | 4 | 2 |

## Hay

| Month | Crop Year | | | | |
|---|---|---|---|---|---|
| | 1991 | 1990 | 1989 | 1988 | 1987 |
| | *Percent* | | | | |
| June | 14 | 10 | 11 | 17 | 15 |
| July | 11 | 12 | 11 | 16 | 12 |
| August | 10 | 8 | 7 | 13 | 10 |
| September | 3 | 5 | 4 | 9 | 5 |
| October | 6 | 5 | 5 | 7 | 6 |
| November | 9 | 14 | 14 | 7 | 10 |
| December | 11 | 14 | 16 | 7 | 9 |
| January | 11 | 8 | 8 | 7 | 8 |
| February | 8 | 6 | 6 | 6 | 10 |
| March | 8 | 8 | 8 | 5 | 7 |
| April | 6 | 6 | 6 | 4 | 6 |
| May | 3 | 4 | 4 | 2 | 3 |

# Wheat, Oats, Barley, and Rye

Michigan's small grain crops rebounded from 1991's low yields to post record or near record yields in 1992 despite being behind normal in development for most of the crop year due to one of the coolest summers on record. Harvest was delayed both by the late maturing crop and by rains. Season average prices for wheat, oats, barley and rye were all up from last year.

Winter wheat yields averaged 56 bushels per acre, up 13 bushels per acre from 1991. Growers harvested 630,000 acres of wheat, up 70,000 acres from the previous year. Oat yields averaged 70 bushels per acre, up 25 bushel per acre from 1991 and a new record for Michigan. Oats were harvested from 120,000 acres for the second year in a row. This is the lowest number of oat acres harvested since records began in 1866. Barley yields averaged 62 bushels per acres, up 19 bushels from 1991. Acres for harvest continued to decline, with only 28,000 acres harvested. Rye yields averaged 31 bushels per acre, up 11 bushels per acre from 1991. Rye was harvested from 16,000 acres.

Michigan grows primarily soft red and white varieties of wheat, which are virtually all marketed as food grains. The majority of the oat crop is used on farm as livestock feed, however large quantities are also sold. Barley is used as a feed, with some also being sold for malting. Rye is grown primarily as a winter cover crop in Michigan.

## Wheat Acreage, Yield, Production

| Year | Acres Harvested | Yield per Acre | Production |
|---|---|---|---|
| | *1,000* | *Bushels* | *1,000 Bushels* |
| **1992** | **630** | **56** | **35,280** |
| 1991 | 560 | 43 | 24,080 |
| 1990 | 750 | 55 | 31,250 |
| 1989 | 640 | 53 | 33,920 |
| 1988 | 620 | 42 | 26,040 |

## Oats Acreage, Yield, Production

| Year | Acres Harvested | Yield per Acre | Production |
|---|---|---|---|
| | *1,000* | *Bushels* | *1,000 Bushels* |
| **1992** | **120** | **70** | **8,400** |
| 1991 | 120 | 45 | 5,400 |
| 1990 | 225 | 58 | 13,050 |
| 1989 | 300 | 67 | 20,100 |
| 1988 | 200 | 30 | 6,000 |

## Barley Acreage, Yield, Production

| Year | Acres Harvested | Yield per Acre | Production |
|---|---|---|---|
| | *1,000* | *Bushels* | *1,000 Bushels* |
| **1992** | **28** | **62** | **1,736** |
| 1991 | 33 | 43 | 1,419 |
| 1990 | 43 | 60 | 2,580 |
| 1989 | 40 | 58 | 2,320 |
| 1988 | 30 | 32 | 1,216 |

## Rye Acreage, Yield, Production

| Year | Acres Harvested | Yield Harvested | Production |
|---|---|---|---|
| | *1,000* | *Bushels* | *1,000 Bushels* |
| **1992** | **16** | **31** | **496** |
| 1991 | 18 | 20 | 360 |
| 1990 | 20 | 29 | 580 |
| 1989 | 25 | 33 | 825 |
| 1988 | 25 | 26 | 650 |

## Small Grain Stocks by Quarter

[Includes interior mills, elevators and ware houses, cereal food processing plants , census merchant mills,terminal and C.C.C bins]

| Crop | Crop Year | September 1 | | December 1 | | March 1 | | June 1 | |
|---|---|---|---|---|---|---|---|---|---|
| | | On Farm | Off Farm | On Farm | Off Farm | On Farm | Off Farm | On Farm | Off Farm |
| | | *1,000 Bushels* | | | | | | | |
| Wheat | **1992** | **5,000** | **23,316** | **2,500** | **12,603** | **1,300** | **11,386** | **400** | **5,742** |
| | 1991 | 4,700 | 17,030 | 2,100 | 10,866 | 500 | 9,033 | 200 | 3,912 |
| | 1990 | 6,500 | 25,062 | 4,500 | 17,627 | 3,100 | 13,026 | 1,800 | 7,043 |
| | 1989 | 5,000 | 21,497 | 1,500 | 11,477 | 800 | 8,056 | 200 | 4,398 |
| | 1988 | 4,300 | 16,219 | 3,200 | 12,146 | 1,300 | 10,200 | 500 | 4,762 |
| Oats | **1992** | **4,000** | **1,674** | **3,000** | **2,401** | **1,800** | **1,898** | **1,100** | **1,398** |
| | 1991 | 3,000 | 2,959 | 2,800 | 2,123 | 1,500 | 1,667 | 1,000 | 1,150 |
| | 1990 | 7,000 | 4,899 | 5,000 | 4,103 | 3,200 | 2,420 | 2,000 | 2,493 |
| | 1989 | [1] | [1] | [1] | [1] | [2]4,500 | 34,183 | 2,500 | 3,566 |
| | 1988 | [1] | [1] | [1] | [1] | [1] | [1] | 1,400 | 1,435 |

[1] Effective 1986 only June estimates will be made.
[2] Effective March 1990 Quarterly Estimates reinstated.

# Potatoes

Michigan's 1992 potato production increased 19 percent from last year. Excellent growing conditions generated record yields for both the fall and summer crops. Low temperatures combined with adequate to surplus soil moisture during almost the entire growing season provided optimum growing conditions for Michigan's potatoes. The state yield averaged 290 cwt per acre, up 33 cwt from a year ago and 18 cwt above 1990's previous record yield. Planted and harvested acreage both climbed slightly from last year to 49,500 acres and 48,000 acres, respectively. Percent harvested remained unchanged from 1991 at 97 percent in spite of wet harvesting conditions for the fall crop.

Michigan ranked tenth among states in potato production in 1992. The majority of Michigan potatoes are whites and are sold for fresh table use or processed for potato chips. Onaway and Snowden are the leading white varieties comprising about 30 percent of all planted acres. The remainder are virtually all Russets and used for french fries and other frozen products. Montcalm, Bay and Presque Isle continue to be the leading counties in potato acreage and production.

## Total Acreage, Yield, Production

| Year | Acres Harvested | Yield per Acre | Production |
|---|---|---|---|
| | *1,000* | *Cwt.* | *1,000 Cwt.* |
| **1992** | **48.0** | **290** | **13,920** |
| 1991 | 45.5 | 257 | 11,715 |
| 1990 | 44.5 | 272 | 12,115 |
| 1989 | 40.0 | 241 | 9,650 |
| 1988 | 43.0 | 220 | 9,440 |

## Fall Potatoes Top Four Varieties Planted 1992

| Variety | Percent |
|---|---|
| Russet Burbank | 21.2 |
| Onoway | 15.7 |
| Snowden | 14.8 |
| Russet Norkotah | 13.2 |

## Production and Disposition

| Season | Year | Production | Total Used for Seed[1] | Used on Farm Where Grown | | Sold |
|---|---|---|---|---|---|---|
| | | | | For Seed, Feed and Household Use | Shrink & Loss | |
| | | *1,000 Cwt.* | | | | |
| Summer | **1992** | **3,120** | (2) | (2) | (2) | (2) |
| | 1991 | 2,875 | 263 | 45 | 160 | 2,670 |
| | 1990 | 2,875 | 240 | 40 | 280 | 2,555 |
| | 1989 | 2,300 | 252 | 27 | 115 | 2,158 |
| | 1988 | 1,620 | 215 | 47 | 93 | 1,480 |
| Fall | **1992** | **10,800** | (2) | (2) | (2) | (2) |
| | 1991 | 8,840 | 648 | 160 | 780 | 7,900 |
| | 1990 | 9,240 | 735 | 200 | 880 | 8,160 |
| | 1989 | 7,350 | 700 | 150 | 590 | 6,610 |
| | 1988 | 7,820 | 620 | 240 | 740 | 6,840 |
| Total | **1992** | **13,920** | (2) | (2) | (2) | (2) |
| | 1991 | 11,715 | 911 | 205 | 940 | 10,570 |
| | 1990 | 12,115 | 975 | 240 | 1,160 | 10,715 |
| | 1989 | 9,650 | 952 | 177 | 705 | 8,768 |
| | 1988 | 9,440 | 835 | 287 | 833 | 8,320 |

[1]Includes seed purchased and seed used on farms where grown.
[2]Not available at publication time.

## Fall Potato Stocks

| Crop Year | December 1 | January 1 | February 1 | March 1 | April 1 | May 1 |
|---|---|---|---|---|---|---|
| | *1,000 Cwt.* | | | | | |
| **1992** | **6,500** | **5,300** | **4,200** | **2,900** | **1,700** | **600** |
| 1991 | 5,500 | 4,400 | 3,400 | 2,600 | 1,700 | 600 |
| 1990 | 5,000 | 4,000 | 3,000 | 2,000 | 1,300 | 500 |
| 1989 | 4,000 | 3,200 | 2,200 | 1,600 | 800 | 400 |
| 1988 | 4,600 | 3,500 | 2,400 | 1,700 | 900 | 300 |

# Hay

Hay continued to be Michigan's second leading crop in value of production during 1992. The 1992 hay crop was valued at over $350 million, up 5 percent from 1991. Harvested acreage, 1.4 million, was down 3 percent from last season. Cool, dry weather during spring and frequent rains and cool weather during the growing season kept harvest behind normal all year. Some operators were not able to harvest a third cutting. Total tonnage harvested in 1992 was down, as yields fell 9 percent from 1991 to 3.31 tons per acre. Hay prices averaged above the level of most recent years at $76.00 per ton.

Michigan placed fourteenth among all states in hay produced in 1992. Production exceeded 4.6 million tons. Alfalfa accounted for 89 percent of the total hay crop. Michigan's alfalfa production ranked seventh nationally.

### Production by Kinds

| Crop Year | Total | Alfalfa and Alfalfa Mixtures | | All Other Kinds | |
|---|---|---|---|---|---|
| | | Acres | Production | Acres | Production |
| | *1,000 Tons* | *1,000* | *1,000 Tons* | *1,000* | *1,000 Tons* |
| **1992** | **4,640** | **1,150** | **4,140** | **250** | **500** |
| 1991 | 5,255 | 1,200 | 4,680 | 250 | 575 |
| 1990 | 5,335 | 1,250 | 4,875 | 200 | 460 |
| 1989 | 5,205 | 1,300 | 4,680 | 250 | 525 |
| 1988 | 4,220 | 1,300 | 3,380 | 600 | 840 |

### Hay Stocks on Farms

| Crop Year | December 1 | May 1 |
|---|---|---|
| | *1,000 Tons* | |
| **1992** | **2,320** | **1,051** |
| 1991 | 2,890 | 1,067 |
| 1990 | 3,041 | 1,041 |
| 1989 | 2,811 | 549 |
| 1988 | 2,405 | 510 |

### Acreage, Yield, Production

| Year | Acres Harvested | Yield per Acre | Production |
|---|---|---|---|
| | *1,000* | *Tons* | *1,000 Tons* |
| **1992** | **1,400** | **3.31** | **4,640** |
| 1991 | 1,450 | 3.62 | 5,255 |
| 1990 | 1,450 | 3.68 | 5,335 |
| 1989 | 1,550 | 3.63 | 5,205 |
| 1988 | 1,900 | 2.22 | 4,220 |

# Spearmint

Michigan's 1992 spearmint crop totaled 90,000 pounds of oil with a value of $1,404,000. Growing conditions were poor, with cold temperatures and too much soil moisture throughout the season, especially in the fall. Even with the unfavorable conditions, most acres were harvested in 1992, although yields dropped from 1991 levels.

Most Michigan spearmint goes to processors which produce oil to be further refined for use in such products as gum, medicine, soap, and toothpaste. Fresh mint leaves are used in restaurants for garnishes. The major producing area is Central Lower Michigan. Michigan ranks sixth in the nation in spearmint production.

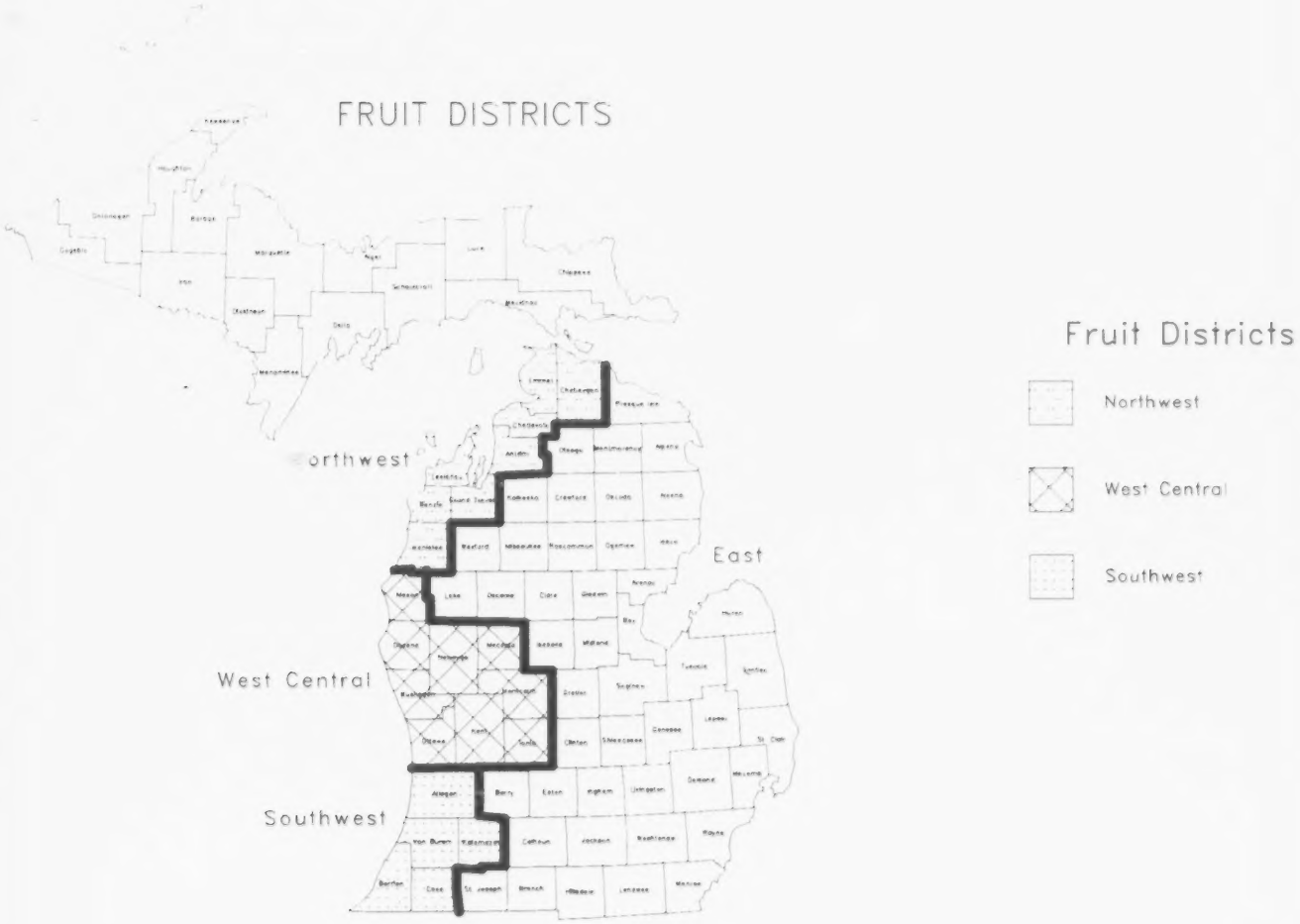
### Acreage, Yield, Production

| Year | Acres Harvested | Production-Oil | |
|---|---|---|---|
| | | Per Acre | Total |
| | | *Pounds* | *1,000 Pounds* |
| **1992** | **2,900** | **31** | **90** |
| 1991 | 3,000 | 36 | 100 |
| 1990 | 2,200 | 30 | 66 |
| 1989 | 1,900 | 32 | 61 |
| 1988 | 1,500 | 24 | 36 |

# Fruit
## General Information

Michigan is one of the nations's major fruit producing states, largely because of Lake Michigan's moderating influence on the weather. Cold air passing over the unfrozen lake in winter is warmed, while hot air passing over in the summer is cooled. This "lake effect" also helps delay fruit tree bloom in the spring, which lessens the possibility of freeze damage. In addition, the dry arctic winter air picks up substantial amounts of moisture as it moves over the unfrozen lake, which is deposited as "lake effect" snow, providing moisture for the fruit trees as well as insulating their root systems.

Fruit production was reduced by poor weather that prevailed throughout most of the 1992 growing season. Mid-April saw a pattern of brief warm spells followed by cloudy, cool, wet and windy weather. Orchard spraying was late due to the windy, wet, muddy conditions. May was drier than April which allow growers to do the necessary spraying. Freezing temperatures occurred on Memorial Day weekend which damaged some of the fruit crops. Summer was marked by below normal temperatures and excessive cloud cover. Development was two to three weeks behind normal due to the abnormally cool summer temperatures. August remained cool and damp and wrapped up the coolest Michigan summer since at least 1895. September started out warmer and humid (although temperatures were still below normal across the state). Warmth and sunshine in early October, however, benefitted some varieties of apples and grapes. Overall, production exceeded early expectations and was at or above 1991 levels.



# Acres, Production and Value

| Fruit | Year | Bearing Acres | Production | | Price Received | Value of Production |
|---|---|---|---|---|---|---|
| | | | Total | Utilized | | |
| | | | *Million Pounds* | | *Dollars per Lb.* | *1,000 Dollars* |
| Apples[1] | **1992** | **53,500** | **1,080** | **1,050** | **0.085** | **89,500** |
| | 1991 | 53,000 | 880 | 880 | 0.109 | 96,320 |
| | 1990 | 52,100 | 750 | 750 | 0.103 | 77,500 |
| | 1989 | 51,900 | 950 | 950 | 0.082 | 78,080 |
| | 1988 | 51,000 | 830 | 830 | 0.088 | 72,960 |
| Blueberries[2] | **1992** | **13,000** | **34** | **34** | **0.797** | **27,100** |
| Tart Cherries | **1992** | **33,900** | **245** | **235** | **0.175** | **41,100** |
| | 1991 | 34,400 | 110 | 110 | 0.481 | 52,890 |
| | 1990 | 32,900 | 160 | 160 | 0.185 | 29,520 |
| | 1989 | 33,300 | 180 | 170 | 0.149 | 25,385 |
| | 1988 | 33,300 | 180 | 180 | 0.183 | 32,859 |
| Sweet Cherries | **1992** | **7,300** | **36** | **34** | **0.345** | **11,708** |
| | 1991 | 7,500 | 42 | 42 | 0.336 | 14,097 |
| | 1990 | 9,900 | 32 | 27 | 0.256 | 6,913 |
| | 1989 | 9,700 | 50 | 50 | 0.234 | 11,705 |
| | 1988 | 9,400 | 56 | 56 | 0.329 | 18,395 |
| Peaches | **1992** | **7,300** | **50** | **48** | **0.169** | **8,091** |
| | 1991 | 7,000 | 40 | 40 | 0.174 | 6,978 |
| | 1990 | 8,000 | 45 | 45 | 0.210 | 9,447 |
| | 1989 | 7,900 | 55 | 55 | 0.191 | 10,490 |
| | 1988 | 7,700 | 45 | 45 | 0.178 | 8,028 |
| | | | *Tons* | | *Dollars per Ton* | |
| Grapes | **1992** | **11,000** | **47,000** | **43,000** | **231** | **9,950** |
| | 1991 | 11,000 | 46,000 | 46,000 | 281 | 12,926 |
| | 1990 | 11,000 | 46,000 | 46,000 | 291 | 13,372 |
| | 1989 | 11,000 | 43,000 | 43,000 | 265 | 11,415 |
| | 1988 | 11,100 | 53,000 | 53,000 | 256 | 13,548 |
| Pears | **1992** | **1,200** | **6,000** | **5,500** | **236** | **1,299** |
| | 1991 | 1,400 | 5,000 | 5,000 | 273 | 1,363 |
| | 1990 | 1,400 | 2,500 | 2,500 | 267 | 668 |
| | 1989 | 1,500 | 8,000 | 8,000 | 256 | 2,047 |
| | 1988 | 1,500 | 6,000 | 6,000 | 241 | 1,445 |
| Prunes and Plums | **1992** | (3) | **8,000** | **8,000** | **268** | **2,140** |
| | 1991 | (3) | 8,000 | 8,000 | 306 | 2,449 |
| | 1990 | (3) | 6,000 | 6,000 | 296 | 1,778 |
| | 1989 | (3) | 13,000 | 13,000 | 175 | 2,281 |
| | 1988 | (3) | 11,000 | 11,000 | 198 | 2,173 |

[1] Commercial.
[2] Estimates reinstated in 1992.
[3] Not published to avoid disclosing individual operations.

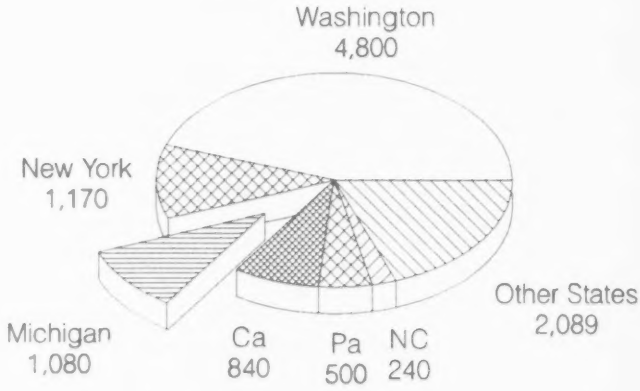
# Apples

Michigan apple output in 1992 was 1.08 billion pounds, up 23 percent from 1991. Severe frost in late May sharply reduced crops in the Northwest and Eastern portions of the State. This was offset by production in the Grand Rapids Area and Southwest that was greater than had been expected. Below normal fruit size and quality resulted in an above normal percentage of apples utilized for juice. Sixty-two percent of the utilized production was processed; thirty-eight percent was sold fresh market. There were 30 million pounds of unutilized production.

Michigan ranked third in output of apples behind Washington and New York. These three state produced two-thirds of the 1992 U.S. crop.

## Commerical Production and Value

| Year | Total Production | Value of Production |
|---|---|---|
| | *Million Pounds* | *1,000 Dollars* |
| **1992** | **1,080** | **89,500** |
| 1991 | 880 | 96,320 |
| 1990 | 750 | 77,500 |
| 1989 | 950 | 78,080 |
| 1988 | 830 | 72,960 |




**1992 U.S. Apple Production**
**(Million lbs.)**

## Production, Utilization And Price

| Year | Total Production | Fresh Market | | Processing | | Total Utilization | |
|---|---|---|---|---|---|---|---|
| | | Quantity | Price Received | Quantity | Price Received | Quantity | Price Received |
| | *Million Pounds* | *Million Pounds* | *Dollars per Pound* | *Million Pounds* | *Dollars per Pound* | *Million Pounds* | *Dollars per Pound* |
| **1992** | **1,080** | **400** | **0.110** | **650** | **0.070** | **1,050** | **0.085** |
| 1991 | 880 | 280 | 0.164 | 600 | 0.084 | 880 | 0.109 |
| 1990 | 750 | 250 | 0.148 | 500 | 0.081 | 750 | 0.103 |
| 1989 | 950 | 320 | 0.118 | 630 | 0.064 | 950 | 0.082 |
| 1988 | 830 | 230 | 0.132 | 600 | 0.071 | 830 | 0.088 |

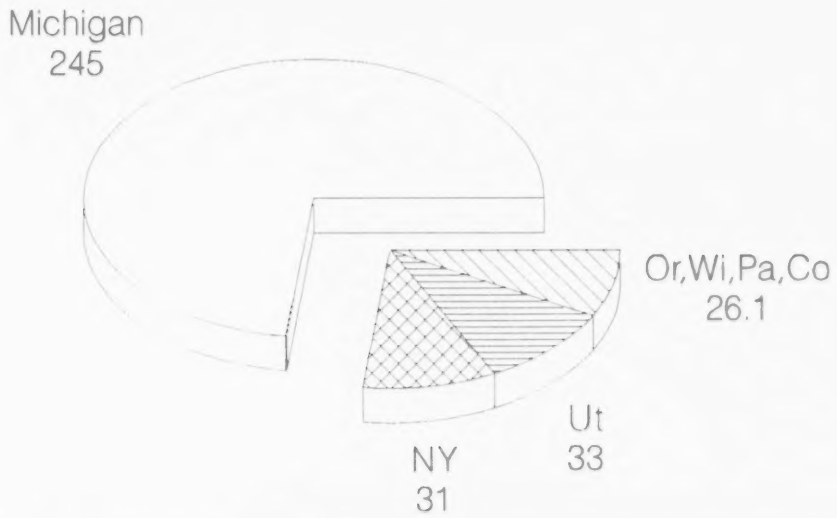
## Processing Apple Utilization and Prices

| Year | Canned | | Frozen | | Juice and Cider | | Other | |
|---|---|---|---|---|---|---|---|---|
| | Quantity | Price Received | Quantity | Price Received | Quantity | Price Received | Quantity | Price Received |
| | *Million Pounds* | *Dollars per Pound* | *Million Pounds* | *Dollars per Pound* | *Million Pounds* | *Dollars per Pound* | *Million Pounds* | *Dollars per Pound* |
| **1992** | **250** | **0.080** | **90** | **0.090** | **300** | **0.056** | **10** | **0.060** |
| 1991 | 230 | 0.091 | 110 | 0.103 | 250 | 0.070 | 10 | 0.069 |
| 1990 | 223 | 0.086 | 110 | 0.098 | 165 | 0.061 | 2 | 0.088 |
| 1989 | 217 | 0.074 | 140 | 0.088 | 270 | 0.043 | 3 | 0.057 |
| 1988 | 200 | 0.082 | 120 | 0.092 | 270 | 0.053 | 10 | 0.058 |

# Tart Cherries

Michigan tart cherry production in 1992 was estimated at 245 million pounds. It was the largest crop since 1987. Utilized production was 235 million pounds. There was a yield of 7,230 pounds per acre on 33,900 bearing acres. Michigan had 73 percent of the U.S. tart cherry production in 1992.

Late spring frosts cut the potential of the crop in the Northwest, where about half the acreage is located. Winds further reduced the output there. Production in the West Central and Southwest areas, however, exceeded initial expectations.



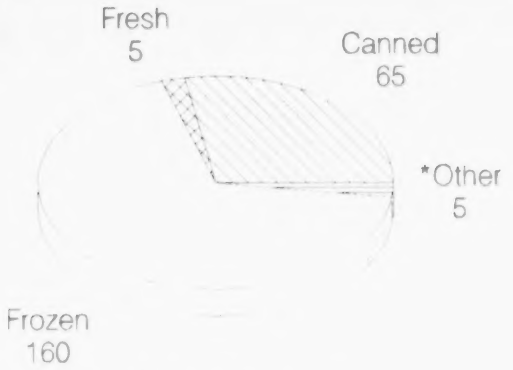

## 1992 U.S. Tart Cherry Production
## (Million lbs.)

### Acres, Production and Value

| Year | Bearing Acres | Production | | Price Received | Value of Production |
|---|---|---|---|---|---|
| | | Total | Utilized | | |
| | | *Million Pounds* | | *Dollars per Pound* | *1,000 Dollars* |
| **1992** | **33,900** | **245** | **235** | **0.175** | **41,100** |
| 1991 | 34,400 | 110 | 110 | 0.481 | 52,890 |
| 1990 | 32,900 | 160 | 160 | 0.185 | 29,520 |
| 1989 | 33,300 | 180 | 170 | 0.149 | 25,385 |
| 1988 | 33,300 | 180 | 180 | 0.183 | 32,859 |

### Production and Utilization

| Year | Total Production | Utilized Production | Fresh Market | Utilization of Sales Processed | | |
|---|---|---|---|---|---|---|
| | | | | Canned | Frozen | Other |
| | *Million Pounds* | | | | | |
| **1992** | **245** | **235** | **5** | **65** | **160** | **5** |
| 1991 | 110 | 110 | 1 | 36 | 71 | 2 |
| 1990 | 160 | 160 | 3 | 60 | 92 | 5 |
| 1989 | 180 | 170 | 3 | 37 | 122 | 8 |
| 1988 | 180 | 180 | 3 | 40 | 128 | 9 |




## Michigan Tart Cherry
### 1992 Utilization (Mil. Lbs.)
*Other uses-juice, wine & brined

## Production By Region

| Region | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | *Million Pounds* | | | | |
| Northwest . . | **95** | 85 | 70 | 70 | 110 |
| West Central . | **85** | 23 | 55 | 40 | 34 |
| Southwest . . | **64** | 1 | 34 | 69 | 35 |
| Other . . . . . | **1** | 1 | 1 | 1 | 1 |
| State Total . . | **245** | 110 | 160 | 180 | 180 |

## Tart Cherry Stocks In Cold Storage

[Juice cherries included in tart cherry stocks prior to January 1991]

| Month | East North Central Region[1] | | | | 48 States Total[2] | | | |
|---|---|---|---|---|---|---|---|---|
| | Crop Year | | | | | | | |
| | **1992** | 1991 | 1990 | 1989 | **1992** | 1991 | 1990 | 1989 |
| | *1,000 Pounds* | | | | | | | |
| July . . . . . | **83,057** | 65,724 | 99,368 | 99,779 | **117,019** | 90,667 | 125,974 | 133,398 |
| August . . . . | **115,905** | 56,300 | 93,545 | 139,696 | **152,661** | 92,471 | 125,677 | 183,231 |
| September . . | **120,313** | 52,144 | 89,064 | 132,403 | **155,258** | 82,727 | 114,536 | 175,797 |
| October . . . | **114,536** | 48,505 | 79,150 | 121,862 | **146,642** | 75,905 | 101,453 | 163,078 |
| November . . | **103,723** | 39,280 | 67,126 | 111,865 | **134,113** | 66,003 | 87,964 | 153,536 |
| December . . | **92,088** | 34,611 | 56,749 | 102,019 | **119,845** | 58,083 | 75,771 | 138,828 |
| January . . . . | **78,526** | 28,829 | 45,433 | 82,938 | **103,805** | 48,508 | 60,861 | 114,152 |
| February . . . | **70,432** | 25,948 | 35,899 | 73,061 | **92,648** | 44,340 | 49,221 | 100,430 |
| March . . . . | **58,860** | 19,945 | 29,833 | 62,012 | **78,876** | 35,743 | 40,727 | 85,813 |
| April . . . . . | **52,743** | 14,601 | 24,112 | 53,853 | **70,864** | 27,104 | 33,483 | 75,422 |
| May . . . . . | **46,047** | 9,720 | 16,850 | 49,056 | **61,974** | 18,391 | 24,236 | 63,979 |
| June . . . . . | **41,552** | 6,820 | 17,180 | 38,216 | **55,376** | 15,376 | 22,809 | 54,456 |

[1]Michigan, Ohio, Illinois, Indiana, and Wisconsin.
[2]Excluding Alaska and Hawaii.

# Sweet Cherries

Sweet cherry production in 1992 was 18,000 tons, down from 21,000 tons a year earlier. The yield was 2.47 tons per acre on 7,300 bearing acres. There were 1,000 tons of unutilized production. The average price received by the grower was $689 per ton, up from $671 per ton for the 1991 crop. Over 95 percent of the utilized crop was brined, canned or frozen. Michigan ranked fourth among states in output of sweet cherries behind Washington, Oregon and California.

## Production and Utilization

| Year | Total Production | Utilized Production | |
|---|---|---|---|
| | | Fresh | Processed |
| | *Million Pounds* | | |
| **1992** . . . . | **36** | **1** | **33** |
| 1991 . . . . | 42 | 3 | 39 |
| 1990 . . . . | 32 | 5 | 22 |
| 1989 . . . . | 50 | 9 | 41 |
| 1988 . . . . | 56 | 11 | 45 |

# Grapes

Grape production in 1992 rose 1,000 tons from a year earlier to 47,000 tons. Four thousand tons, however, were unharvested, because they never ripened before frost. The yield was 4.27 tons per acre on 11,000 bearing acres. Concord production was 38,500 tons, up 4 percent from 1991. Most of the unharvested production was Concords, which require more growing degree days than Niagaras. The cool, cloudy growing season left "brix "contents well below normal. About 95 percent of the utilized crop was used for juice, and 4 percent was pressed into wine. Michigan ranked fifth in grape production behind California, Washington, New York, and Pennsylvania.

## Grape Production

| Kind & Year | Production |
|---|---|
| | *Tons* |
| Concord | |
| **1992** | **38,500** |
| 1991 | 37,000 |
| 1990 | 38,000 |
| 1989 | 36,000 |
| 1988 | 45,500 |
| Other Than Concord | |
| **1992** | **8,500** |
| 1991 | 9,000 |
| 1990 | 8,000 |
| 1989 | 7,000 |
| 1988 | 7,500 |
| Total | |
| **1992** | **47,000** |
| 1991 | 46,000 |
| 1990 | 46,000 |
| 1989 | 43,000 |
| 1988 | 53,000 |

## 1992 Grape Utilization (Tons)

## Acres, Production and Value

| Year | Bearing Acres | Production | | Price Received | Value of Production |
|---|---|---|---|---|---|
| | | Total | Utilized | | |
| | | *Tons* | | *Dollars per Ton* | *1,000 Dollars* |
| **1992** | **11,000** | **47,000** | **43,000** | **231** | **9,950** |
| 1991 | 11,000 | 46,000 | 46,000 | 281 | 12,926 |
| 1990 | 11,000 | 46,000 | 46,000 | 291 | 13,372 |
| 1989 | 11,000 | 43,000 | 43,000 | 265 | 11,415 |
| 1988 | 11,100 | 53,000 | 53,000 | 256 | 13,548 |

## Production and Utilization

| Year | Total Production | Utilized Production | Fresh Market Utilization | Processed Utilization | |
|---|---|---|---|---|---|
| | | | | Juice | Wine |
| | | | *Tons* | | |
| **1992** | **47,000** | **43,000** | **500** | **40,800** | **1,700** |
| 1991 | 46,000 | 46,000 | 600 | 43,000 | 2,400 |
| 1990 | 46,000 | 46,000 | 800 | 43,000 | 2,200 |
| 1989 | 43,000 | 43,000 | 700 | 39,900 | 2,400 |
| 1988 | 53,000 | 53,000 | 1,000 | 49,000 | 3,000 |

# Prunes And Plums

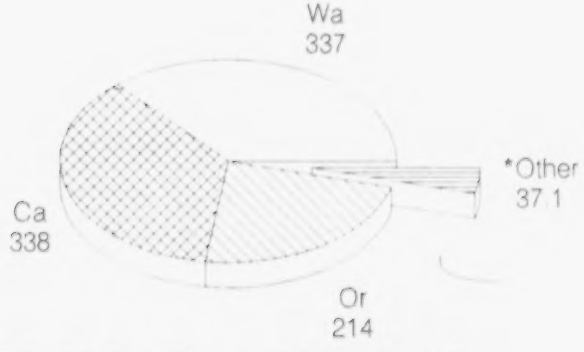
Prune and plum production in 1992 was 8,000 tons, unchanged from the previous year. The average price received by the producer was $268 per ton, down from $306 per ton for the 1991 crop. Michigan ranked fourth in production of prunes and plums in 1992 behind California, Oregon and Washington.

## Production and Utilization

| Year | Total Production | Utilized Production | |
|---|---|---|---|
| | | Fresh | Processed |
| | *Tons* | | |
| 1992 | 8,000 | 4,000 | 4,000 |
| 1991 | 8,000 | 3,500 | 4,500 |
| 1990 | 6,000 | 4,000 | 2,000 |
| 1989 | 13,000 | 5,500 | 7,500 |
| 1988 | 11,000 | 5,000 | 6,000 |

# Pears

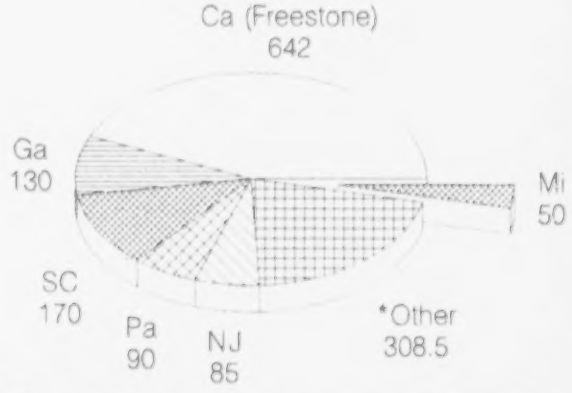
Pear production in 1992 was 6,000 tons, up from 5,000 tons a year earlier. The yield was 5.00 tons per acre on 1,200 bearing acres. There were 500 tons of unutilized production. The average price received by the grower was $236 per ton, down from $273 per ton for the 1991 crop.




**1992 U.S. Pear Production**
**(Thousand Tons)**
*NY, PA, UT, MI, CO, CT

# Peaches

Michigan, the Nation's seventh largest producer of peaches, had a 50 million pound output in 1992. That was up 20 percent from 1991 production. The mean yield was estimated at 6,850 pounds per acre on 7,300 bearing acres. The average price at the producer level was 17 cents per pound.




**1992 U.S. Peach Production**
**(Million lbs.)**
*24 other states, excludes CA Clingstone

# Blueberries

Michigan was the leading state in blueberry production for 1992. The blueberry estimating program was reinstated by USDA in 1992 and estimates were made for the first time in ten years. The 34 million pound output was 30 percent of the U.S. total. The farm-level value of this fruit exceeded 27 million dollars. About 70 percent of Michigan blueberries were frozen or canned. New Jersey growers produced 24 million pounds of blueberries.

# Vegetables

Michigan vegetable growers produced over 17 million hundredweight (cwt) of fresh and processed vegetables, excluding strawberries, in 1992. Michigan's vegetable estimating program was expanded to now include fresh snap beans, cabbage, cantaloupes, cucumbers, and bell peppers. Comparing like crops, total production increased two percent from last year and was nearly equal to 1990's total production.

The season started dry and cool with frosts occurring nearly every week until mid-June. Heavy frosts over the Memorial Day weekend damaged many non-irrigated crops. Temperatures remained well below normal most of the season, resulting in the coldest summer since 1895. Soil moisture was short to adequate until July, when conditions changed to adequate to surplus. Soil moisture remained adequate to surplus for the balance of the season, including the harvesting phase for most crops. Most cool season crops thrived with the low temperatures and surplus moisture, resulting in excellent yields for onions, carrots and other root crops. Warm season vegetables suffered from the cool temperatures and excess soil moisture.

Planted and harvested acreage totals in 1992 reflected the addition of the new crops with 134,300 acres and 124,650 acres respectively. Planted acres were essentially unchanged from last year when comparing like crops. Percent harvested fell to 93 percent in 1992 due to the cool temperatures and wet harvesting conditions.

Michigan ranked as the number one producer of cucumbers for pickles, and third in asparagus, carrots, celery, processing snap beans, and processing tomatoes in 1992. Most of the state's vegetables are grown in the southern half of the lower peninsula. Michigan's muck soils are used for growing crops such as onions, carrots, celery and lettuce. Processing vegetables are used by both in and out of state processors. Michigan grown produce is shipped to major markets throughout the nation.

## Total Vegetable Acreage, Production and Value

[Includes asparagus, carrots, cauliflower, celery, sweet corn, lettuce, onions, tomatoes, processing snap beans, processing green peas and cumbers for pickles]

| Year | Acres Planted | Acres Harvested | Production | Value |
|---|---|---|---|---|
| | | | *1,000 Cwt.* | *1,000 Dollars* |
| **1992** | **134,300** | **124,650** | **17,097** | **170,899** |
| 1991 | 123,600 | 117,800 | 15,310 | 143,164 |
| 1990 | 126,700 | 119,600 | 15,656 | 137,985 |
| 1989 | 120,800 | 111,400 | 13,607 | 133,645 |
| 1988 | 117,000 | 105,300 | 11,821 | 125,413 |

## Dual Purpose Vegetable Acreage, Production and Value

| Crop | Year | Acres | | Production | | Price Received | Value of Production |
|---|---|---|---|---|---|---|---|
| | | Planted | Harvested | Per Acre | Total | | |
| | | | | *Cwt.* | *1,000 Cwt.* | *Dollars per Cwt.* | *1,000 Dollars* |
| Asparagus | **1992** | [1] **23,000** | **22,500** | **13** | **293** | **57.60** | **16,888** |
| | 1991 | [1] 24,000 | 23,500 | 11 | 259 | 54.50 | 14,126 |
| | 1990 | [1] 24,000 | 23,500 | 11 | 259 | 56.70 | 14,685 |
| | 1989 | [1] 24,000 | 23,000 | 11 | 253 | 58.40 | 14,784 |
| | 1988 | [1] 23,000 | 22,500 | 11 | 248 | 59.00 | 14,636 |
| Carrots | **1992** | **6,900** | **6,800** | **275** | **1,870** | **10.90** | **20,313** |
| | 1991 | 7,000 | 6,800 | 250 | 1,700 | 10.30 | 17,443 |
| | 1990 | 7,000 | 6,700 | 280 | 1,876 | 9.20 | 17,250 |
| | 1989 | 8,000 | 6,800 | 245 | 1,666 | 8.43 | 14,047 |
| | 1988 | 7,800 | 6,700 | 255 | 1,709 | 12.50 | 21,317 |
| Cauliflower | **1992** | **1,000** | **900** | **65** | **59** | **40.50** | **2,388** |
| | 1991 | 1,200 | 1,100 | 65 | 72 | 30.80 | 2,215 |
| | 1990 | 1,200 | 1,000 | 70 | 70 | 39.40 | 2,755 |
| | 1989 | 1,300 | 1,200 | 60 | 72 | 33.00 | 2,378 |
| | 1988 | 1,200 | 1,100 | 55 | 61 | 39.00 | 2,382 |
| Celery | **1992** | **2,800** | **2,700** | **460** | **1,242** | **14.10** | **17,547** |
| | 1991 | 3,100 | 2,900 | 420 | 1,218 | 10.30 | 12,515 |
| | 1990 | 3,100 | 3,000 | 430 | 1,290 | 9.99 | 12,891 |
| | 1989 | 3,200 | 2,800 | 380 | 1,064 | 13.30 | 14,103 |
| | 1988 | 3,200 | 3,100 | 380 | 1,178 | 13.70 | 16,142 |
| Strawberries | **1992** | **2,300** | **2,100** | **58** | **122** | **57.90** | **7,066** |
| | 1991 | 2,300 | 2,100 | 62 | 130 | 49.50 | 6,430 |
| | 1990 | 2,400 | 2,200 | 65 | 143 | 50.50 | 7,215 |
| | 1989 | 2,400 | 2,200 | 53 | 117 | 49.00 | 5,736 |
| | 1988 | 2,500 | 2,300 | 55 | 127 | 47.90 | 6,081 |

[1] Bearing acres only.

## Dual Purpose Vegetable Disposition and Value

[Disposition data not publishable for cauliflower and celery]

| Crop | Year | Fresh Market | | | Processing | | |
|---|---|---|---|---|---|---|---|
| | | Production | Price Received | Value of Production | Production | Price Received | Value of Production |
| | | *1,000 Cwt.* | *Dollars per Cwt.* | *1,000 Dollars* | Tons | *Dollars per Ton* | *1,000 Dollars* |
| Asparagus | **1992** | **52** | **74.50** | **3,874** | **12,050** | **1,080.00** | **13,014** |
| | 1991 | 53 | 68.30 | 3,620 | 10,300 | 1,020.00 | 10,506 |
| | 1990 | 51 | 67.70 | 3,453 | 10,400 | 1,080.00 | 11,232 |
| | 1989 | 33 | 68.00 | 2,244 | 11,000 | 1,140.00 | 12,540 |
| | 1988 | 42 | 68.90 | 2,894 | 10,300 | 1,140.00 | 11,742 |
| Carrots | **1992** | **1,259** | **14.80** | **18,633** | **30,550** | **55.00** | **1,680** |
| | 1991 | 1,279 | 12.70 | 16,243 | 21,060 | 57.00 | 1,200 |
| | 1990 | 1,316 | 11.90 | 15,660 | 28,000 | 56.80 | 1,590 |
| | 1989 | 978 | 12.50 | 12,225 | 34,380 | 53.00 | 1,822 |
| | 1988 | 1,139 | 17.20 | 19,591 | 28,480 | 60.60 | 1,726 |
| Strawberries | **1992** | **102** | **63.00** | **6,426** | **1,000** | **640.00** | **640** |
| | 1991 | 97 | 52.00 | 5,044 | 1,650 | 840.00 | 1,386 |
| | 1990 | 106 | 54.10 | 5,735 | 1,850 | 800.00 | 1,480 |
| | 1989 | 77 | 54.70 | 4,212 | 2,000 | 762.00 | 1,524 |
| | 1988 | 87 | 52.70 | 4,585 | 2,000 | 748.00 | 1,496 |

## Fresh Market Vegetable Acreage, Production and Value

| Crop | Year | Acres | | Production | | Price Received | Value of Production[1] |
|---|---|---|---|---|---|---|---|
| | | Planted | Harvested | Per Acre | Total | | |
| | | | | *Cwt.* | *1,000 Cwt.* | *Dollars per Cwt.* | *1,000 Dollars* |
| Snap Beans[2] | **1992** | **2,500** | **2,300** | **41** | **94** | **33.90** | **3,187** |
| Cabbage[2] | **1992** | **2,200** | **2,000** | **220** | **440** | **6.80** | **2,992** |
| Cantaloups[2] | **1992** | **1,700** | **1,500** | **100** | **80** | **23.10** | **1,848** |
| Sweet Corn | **1992** | **14,500** | **12,500** | **72** | **900** | **13.60** | **12,240** |
| | 1991 | 14,000 | 12,800 | 73 | 934 | 17.50 | 16,345 |
| | 1990 | 14,000 | 12,500 | 63 | 788 | 14.30 | 11,268 |
| | 1989 | 13,000 | 11,800 | 68 | 802 | 17.50 | 14,035 |
| | 1988 | 12,500 | 9,000 | 60 | 540 | 16.90 | 9,126 |
| Cucumbers[2] | **1992** | **4,500** | **4,200** | **150** | **630** | **17.00** | **10,710** |
| Lettuce | **1992** | **600** | **400** | **200** | **80** | **30.00** | **2,400** |
| | 1991 | 1,000 | 800 | 250 | 200 | 20.30 | 4,060 |
| | 1990 | 1,000 | 900 | 230 | 207 | 22.30 | 4,616 |
| | 1989 | 1,300 | 1,100 | 190 | 209 | 20.40 | 4,264 |
| | 1988 | 1,300 | 800 | 175 | 140 | 18.90 | 2,646 |
| Onions | **1992** | **7,600** | **7,200** | **340** | **2,448** | **10.50** | **19,278** |
| | 1991 | 7,500 | 7,300 | 280 | 2,044 | 11.50 | 19,516 |
| | 1990 | 7,600 | 7,400 | 330 | 2,442 | 8.42 | 15,425 |
| | 1989 | 8,200 | 7,900 | 280 | 2,212 | 10.70 | 17,773 |
| | 1988 | 8,500 | 8,000 | 250 | 2,000 | 11.00 | 16,962 |
| Bell Peppers[2] | **1992** | **3,000** | **2,600** | **100** | **260** | **25.00** | **6,500** |
| Tomatoes | **1992** | **2,700** | **2,600** | **125** | **325** | **32.40** | **10,530** |
| | 1991 | 2,800 | 2,700 | 110 | 297 | 23.00 | 6,831 |
| | 1990 | 2,800 | 2,500 | 120 | 300 | 20.70 | 6,210 |
| | 1989 | 2,800 | 2,500 | 100 | 250 | 25.20 | 6,300 |
| | 1988 | 3,100 | 2,400 | 85 | 204 | 34.00 | 6,936 |

[1]For onions - Value of Sales.
[2]Estimates reinstated in 1992.

## Pickle Stocks, October 1, United States

| Year | From Current Year Stock | | | From Previous Year Crop | | Total Stocks |
|---|---|---|---|---|---|---|
| | Salt Stock Including Dill | Fresh Packs | Refrigerated | Salt Stock Including Dill | Fresh Pack | |
| | | | *Tons* | | | |
| **1992** | **258,130** | **118,100** | **8,130** | **40,830** | **280** | **425,470** |
| 1991 | 263,160 | 142,280 | 10,080 | 44,620 | 1,490 | 461,630 |
| 1990 | 302,460 | 138,310 | 11,230 | 38,670 | 1,210 | 492,180 |
| 1989 | 267,830 | 133,080 | 7,630 | 48,890 | 1,450 | 458,880 |
| 1988 | 278,030 | 127,870 | 5,210 | 46,860 | 3,140 | 461,110 |

## Processing Vegetable Acreage, and Value

[Green peas and 1988-90 sweet corn not published to avoid disclosure of individual operations]

| Crop | Year | Acres | | Production | | Price Received | Value of Production |
|---|---|---|---|---|---|---|---|
| | | Planted | Harvested | Per Acre | Total | | |
| | | | | *Tons* | | *Dollars per Ton* | *1,000 Dollars* |
| Snap Beans | **1992** | **23,000** | **21,000** | **3.30** | **69,300** | **137.00** | **9,494** |
| | 1991 | 25,000 | 23,000 | 3.10 | 71,300 | 157.00 | 11,194 |
| | 1990 | 29,500 | 27,000 | 2.95 | 79,650 | 170.00 | 13,541 |
| | 1989 | 25,000 | 21,500 | 2.90 | 62,350 | 166.00 | 10,350 |
| | 1988 | 23,000 | 21,000 | 1.80 | 37,800 | 175.00 | 6,615 |
| Cucumbers for Pickles | **1992** | **23,000** | **21,500** | **5.20** | **111,800** | **159.00** | **17,776** |
| | 1991 | 23,000 | 22,500 | 6.40 | 144,000 | 152.00 | 21,888 |
| | 1990 | 25,000 | 24,000 | 5.90 | 141,600 | 167.00 | 23,647 |
| | 1989 | 25,500 | 24,500 | 6.00 | 147,000 | 168.00 | 24,696 |
| | 1988 | 25,000 | 23,000 | 5.50 | 126,500 | 156.00 | 19,734 |
| Tomatoes | **1992** | **6,200** | **5,600** | **32.40** | **181,440** | **69.00** | **12,519** |
| | 1991 | 6,900 | 6,700 | 25.30 | 169,510 | 78.00 | 13,222 |
| | 1990 | 6,100 | 5,700 | 29.80 | 169,860 | 75.50 | 12,824 |
| | 1989 | 5,600 | 5,400 | 24.60 | 132,840 | 72.80 | 9,671 |
| | 1988 | 5,600 | 5,200 | 21.60 | 112,320 | 68.20 | 7,660 |
| Sweet Corn | **1992** | **7,500** | **7,200** | **6.00** | **43,200** | **74.00** | **3,197** |
| | 1991 | 6,700 | 6,300 | 6.56 | 41,330 | 77.00 | 3,182 |

# Mushrooms

Michigan mushroom production fell 31 percent during the fiscal year ending June 30, 1992. The production estimate includes conventional button mushrooms (Agaricus) and specialty mushrooms (Shiitake, Oysters, and all other specialties). Even with the decline in production, Michigan remained the nation's fourth ranking mushroom producing state. The decline in production was due to a 26 percent reduction in square footage and slightly lower yields.

The button mushrooms are grown in specially built mushroom houses where humidity and temperatures are carefully controlled year round. The available square footage can be filled three or more times during the year to account for the total area in production. Michigan's specialty mushrooms are grown on both indoor and outdoor natural wood logs.

## Area, Production and Value

| Year | Total Area in Production | Production | Yield per Square Foot | Price per Pound | Value of Production |
|---|---|---|---|---|---|
| | *1,000 Sq. Ft.* | *1,000 Pounds* | *Pounds* | *Cents* | *1,000 Dollars* |
| **1991-92** | **3,925** | **17,628** | **4.49** | **88.1** | **15,525** |
| 1990-91 | 5,320 | 25,452 | 4.78 | 94.0 | 23,934 |
| 1989-90 | 4,010 | 19,408 | 4.84 | 102.0 | 19,756 |
| 1988-89 | 4,498 | 22,512 | 5.00 | 91.8 | 20,675 |
| 1987-88 | 4,279 | 23,359 | 5.46 | 88.7 | 20,719 |

# Floriculture

Michigan placed sixth nationally in value of wholesale sales of floriculture products in 1992. Only California, Florida, New York, Texas, and Ohio reported larger sales than Michigan. Reports from Michigan's 455 commercial growers indicated an estimated wholesale value of nearly $137 million for all surveyed floriculture crops, up nine percent from last year. This estimate includes summarized data for all growers above $100,000 in sales and expanded data for operations with sales from $10,000 to $100,000. Industry breakdowns for operations over $100,000 in sales were as follows: Bedding/garden plants were the leading floriculture crop in Michigan with $89 million in sales, which ranked third in the nation. Flowering potted plants were second with over $23 million, cut flowers third with $12 million, followed by foliage with almost $4 million in sales.

Michigan leads the nation in quantity sold for four of the surveyed floriculture crops. These crops are:

- Flowering Hanging Baskets with 2 million baskets valued at $11 million dollars.
- Potted Geraniums (seed) with 13.7 million pots valued at $10 million dollars.
- Potted Easter Lilies with 1.1 million pots valued at $4.5 million dollars.
- Bedding Geranium Flats with 405,000 flats valued at $3.2 million dollars.

Other Michigan standouts include 45 million spikes of Cut Gladioli sold valued at $5.8 million and 960,000 flats of Vegetable Type Bedding Plants valued at $5.3 million. Both ranked second in the nation. Total greenhouse cover in the state rose three percent to 26.9 million square feet. This includes both rigid and film plastic greenhouses. Only California and Florida have more covered growing area.

## Area of Production and Average Value

| Plant | Production Area | | | Average Value of Production Area [1] | | |
|---|---|---|---|---|---|---|
| | **1992** | 1991 | 1990 | **1992** | 1991 | 1990 |
| | *1,000 Sq. Ft.* | | | *Dollars per Sq. Ft.* | | |
| Foliage Plants | | | | | | |
| All | **330** | 250 | 315 | **7.00** | 12.04 | 7.68 |
| Bedding Plants | | | | | | |
| Flowering & Foliar | **16,700** | 14,800 | 13,750 | **2.70** | 2.78 | 2.86 |
| Vegetable | **1,975** | 1,750 | 1,650 | **2.67** | 2.84 | 2.74 |
| Geraniums | **840** | 560 | 275 | **3.76** | 3.88 | 4.89 |
| Potted Plants | | | | | | |
| Chrysanthemums | **745** | 755 | 820 | **3.45** | 3.88 | 4.06 |
| Azaleas | **230** | 195 | 190 | **5.30** | 4.93 | 5.09 |
| Poinsettias | **4,695** | 4,015 | 3,935 | **2.05** | 2.21 | 2.25 |
| African Violets | **100** | 105 | 95 | **5.25** | 5.13 | 6.08 |
| Easter Lilies | **670** | 675 | 680 | **6.66** | 5.16 | 5.28 |
| Other Lilies | **65** | 55 | 45 | **7.88** | 8.31 | 7.56 |
| Hardy/Garden Mums | **1,850** | 1,300 | 940 | **1.15** | 1.32 | 1.45 |
| Geraniums (Cuttings) | **1,540** | 1,240 | 1,070 | **3.84** | 3.53 | 3.78 |
| Geraniums (Seed) | **2,870** | 3,240 | 2,430 | **3.51** | 2.82 | 3.34 |
| Other Flowering Plants | **935** | 945 | 810 | **4.74** | 3.07 | 3.72 |
| Other Flowering & Foliar Type Bedding Plants | **1,810** | 1,605 | 1,605 | **3.29** | 3.01 | 3.23 |
| Vegetable Type Bedding Plants | **110** | 65 | 57 | **2.04** | 2.38 | 2.77 |
| Cut Flowers | | | | | | |
| Chrysanthemums | | | | | | |
| Standard | **20** | 10 | (2) | **2.75** | 1.80 | (2) |
| Pompon | **45** | 190 | 185 | **3.44** | 1.16 | 1.23 |
| Roses | | | | | | |
| Hybrid Tea | **485** | 505 | 485 | **7.01** | 7.01 | 7.65 |
| Sweetheart | **160** | 150 | 160 | **6.11** | 6.11 | 6.25 |
| Other Cut Flowers | **6,470** | 7,610 | 7,580 | **0.23** | 0.22 | 0.31 |
| | *Acres* | | | *Dollars per Acre* | | |
| Gladioli | **1,415** | 1,330 | 1,240 | **4,107** | 4,329 | 4,292 |

[1] Based on Value of Sales at Wholesale, except foliage which is based on Net Value of Sales.
[2] Not published to avoid disclosure of individual operations.

## Bedding Plant and Flower Production and Sales

| Crop | Year | Producers with Sales Over $100,000 | Sales | | Sales at Wholesale | Wholesale Price | Sales at Wholesale[1] |
|---|---|---|---|---|---|---|---|
| | | | Unit | Quantity | | | |
| | | *Number* | | *1,000* | *Percent* | *Dollars* | *1,000 Dollars* |
| Bedding Plants | | | | | | | |
| Flowering & Foliar | **1992** | **226** | **Flat** | **8,440** | **86** | **5.35** | **45,154** |
| | 1991 | 175 | Flat | 7,770 | 92 | 5.30 | 41,181 |
| | 1990 | 189 | Flat | 7,410 | 91 | 5.30 | 39,273 |
| Vegetable[2] | **1992** | **193** | **Flat** | **960** | **80** | **5.50** | **5,280** |
| | 1991 | 163 | Flat | 920 | 89 | 5.40 | 4,968 |
| | 1990 | 161 | Flat | 860 | 88 | 5.25 | 4,515 |
| Geraniums | **1992** | **69** | **Flat** | **405** | **96** | **7.80** | **3,159** |
| | 1991 | 63 | Flat | 275 | 94 | 7.90 | 2,173 |
| | 1990 | 48 | Flat | 275 | 86 | 8.40 | 1,344 |
| Hanging Baskets | | | | | | | |
| Flowering | **1992** | **230** | **Basket** | **1,970** | **83** | **5.60** | **11,032** |
| | 1991 | 192 | Basket | 1,660 | 86 | 5.40 | 8,964 |
| | 1990 | 193 | Basket | 1,480 | 87 | 5.45 | 8,066 |
| Foliage | **1992** | **85** | Basket | **300** | **90** | **4.55** | **1,365** |
| | 1991 | 68 | Basket | 265 | 88 | 4.60 | 1,219 |
| | 1990 | 66 | Basket | 210 | 87 | 4.55 | 956 |
| Cut Flowers | | | | | | | |
| Chrysanthemums | | | | | | | |
| Standard | **1992** | **10** | **Bloom** | **55** | **39** | **1.00** | **55** |
| | 1991 | 5 | Bloom | 20 | 45 | 0.90 | 18 |
| | 1990 | (3) | Bloom | (3) | (3) | (3) | (3) |
| Pompon | **1992** | **14** | Bunch | **50** | **26** | **3.10** | **155** |
| | 1991 | 8 | Bunch | 85 | 80 | 2.60 | 221 |
| | 1990 | 11 | Bunch | 90 | 71 | 2.65 | 239 |
| Roses | | | | | | | |
| Hybrid Tea | **1992** | 6 | **Bloom** | 5,230 | 99 | 0.65 | 3,400 |
| | 1991 | 6 | Bloom | 5,710 | 99 | 0.60 | 3,426 |
| | 1990 | 6 | Bloom | 5,710 | 99 | 0.65 | 3,712 |
| Sweetheart | **1992** | **4** | **Bloom** | **2,170** | **100** | **0.45** | **977** |
| | 1991 | 4 | Bloom | 2,290 | 100 | 0.40 | 916 |
| | 1990 | 4 | Bloom | 2,500 | 100 | 0.40 | 1,000 |
| Gladioli | **1992** | 10 | **Spike** | 44,700 | 100 | 0.130 | 5,811 |
| | 1991 | 7 | Spike | 39,700 | 100 | 0.145 | 5,757 |
| | 1990 | 6 | Spike | 36,700 | 100 | 0.145 | 5,322 |
| Other Cut Flowers | **1992** | **29** | – | – | **91** | – | **1,490** |
| | 1991 | 17 | – | – | 97 | – | 1,640 |
| | 1990 | 18 | – | – | 98 | – | 2,330 |

[1] Equivalent wholesale value of all sales.
[2] Does not include vegetable transplants grown for use in commercial vegetable production.
[3] Not published to avoid disclosure of individual operations.

## Growers and Growing Area

| Year | Total Number of Growers | Glass Greenhouses | Fiberglass and other Rigid Greenhouses | Film Plastic (Single/Double) Greenhouses | Total Greenhouse Cover | Shade and Temporary Cover | Total Covered Area | Open Ground |
|---|---|---|---|---|---|---|---|---|
| | *Number* | | | *1,000 Square Feet* | | | | *Acres* |
| **1992** | **455** | **4,500** | **2,900** | **19,500** | **26,900** | **280** | **27,180** | **1,700** |
| 1991 | 470 | 4,600 | 2,500 | 19,000 | 26,100 | 210 | 26,310 | 1,700 |
| 1990 | 480 | 4,600 | 2,700 | 18,500 | 25,800 | 130 | 25,930 | 1,600 |

## Flower Production and Sales

| Crop | Year | Producers with Sales Over $100,000 | Sales | | | | Percent of Sales at Wholesale | Wholesale Price | | Value of Sales at Wholesale[1] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Unit | Quantity | | Total | | | | |
| | | | | Less Than 5 Inch | 5 Inch or More | | | Less than 5 Inch | 5 Inch or More | |
| | | *Number* | | | *1,000* | | *Percent* | *Dollars* | *1,000* | *Dollars* |
| Potted Plants | | | | | | | | | | |
| Chrysanthemums | **1992** | **45** | **Pot** | **150** | **630** | **780** | **93** | **1.40** | **3.75** | **2,573** |
| | 1991 | 40 | Pot | 190 | 700 | 890 | 96 | 1.40 | 3.80 | 2,926 |
| | 1990 | 41 | Pot | 155 | 800 | 955 | 96 | 1.35 | 3.90 | 3,329 |
| Azaleas | **1992** | **48** | **Pot** | **15** | **205** | **220** | **85** | **2.70** | **5.75** | **1,219** |
| | 1991 | 36 | Pot | 20 | 155 | 175 | 86 | 2.75 | 5.85 | 962 |
| | 1990 | 40 | Pot | 10 | 165 | 175 | 91 | 2.75 | 5.70 | 968 |
| Poinsettias | **1992** | **115** | **Pot** | **705** | **2,305** | **3,010** | **84** | **1.55** | **3.70** | **9,621** |
| | 1991 | 90 | Pot | 650 | 2,265 | 2,915 | 90 | 1.45 | 3.50 | 8,870 |
| | 1990 | 84 | Pot | 600 | 2,135 | 2,735 | 90 | 1.60 | 3.70 | 8,860 |
| African Violets | **1992** | **14** | **Pot** | **500** | **–** | **500** | **97** | **1.05** | **–** | **525** |
| | 1991 | 14 | Pot | 490 | – | 490 | 92 | 1.10 | – | 539 |
| | 1990 | 16 | Pot | 525 | – | 525 | 98 | 1.10 | – | 578 |
| Easter Lilies | **1992** | **65** | **Pot** | **–** | **1,130** | **1,130** | **94** | **–** | **3.95** | **4,464** |
| | 1991 | 49 | Pot | – | 1,055 | 1,055 | 96 | – | 3.30 | 3,482 |
| | 1990 | 47 | Pot | – | 1,055 | 1,055 | 98 | – | 3.40 | 3,587 |
| Other Lilies | **1992** | **26** | **Pot** | **–** | **115** | **115** | **92** | **–** | **4.45** | **512** |
| | 1991 | 19 | Pot | – | 110 | 110 | 97 | – | 4.15 | 457 |
| | 1990 | 19 | Pot | – | 80 | 80 | 95 | – | 4.25 | 340 |
| Hardy/Garden Mums | **1992** | **86** | **Pot** | **410** | **875** | **1,285** | **90** | **0.80** | **2.05** | **2,122** |
| | 1991 | 77 | Pot | 485 | 680 | 1,165 | 94 | 0.80 | 1.95 | 1,714 |
| | 1990 | 41 | Pot | 155 | 800 | 955 | 96 | 1.35 | 3.90 | 3,329 |
| Geraniums (Cuttings) | **1992** | **149** | **Pot** | **3,120** | **465** | **3,585** | **63** | **1.35** | **3.65** | **5,909** |
| | 1991 | 113 | Pot | 2,310 | 405 | 2,715 | 71 | 1.35 | 3.10 | 4,374 |
| | 1990 | 117 | Pot | 2,185 | 400 | 2,585 | 77 | 1.30 | 3.00 | 4,041 |
| Geraniums (Seed) | **1992** | **113** | **Pot** | **13,510** | **–** | **13,690** | **96** | **0.70** | **–** | **10,069** |
| | 1991 | 104 | Pot | 13,030 | – | 13,030 | 97 | 0.70 | – | 9,121 |
| | 1990 | 112 | Pot | 12,500 | – | 12,500 | 90 | 0.65 | – | 8,125 |
| Other Flowering Plants | **1992** | **71** | **Pot** | **1,335** | **790** | **2,125** | **95** | **1.25** | **3.50** | **4,434** |
| | 1991 | 59 | Pot | 680 | 630 | 1,310 | 95 | 1.25 | 3.25 | 2,898 |
| | 1990 | 62 | Pot | 385 | 750 | 1,135 | 95 | 1.40 | 3.30 | 3,014 |
| Other Flowering & Foliar Type Bedding Plants | **1992** | **106** | **Pot** | **4,875** | **910** | **5,785** | **90** | **0.80** | **2.25** | **5,948** |
| | 1991 | 79 | Pot | 3,750 | 480 | 4,230 | 92 | 1.00 | 2.25 | 4,830 |
| | 1990 | 76 | Pot | 3,780 | 565 | 4,245 | 96 | 0.85 | 2.35 | 4,541 |
| Vegetable Type Bedding Plants[2] | **1992** | **56** | **Pot** | **240** | **50** | **290** | **68** | **0.60** | **1.60** | **224** |
| | 1991 | 33 | Pot | 165 | 35 | 200 | 78 | 0.60 | 1.60 | 155 |
| | 1990 | 32 | Pot | 200 | 25 | 225 | 80 | 0.60 | 1.50 | 158 |

[1] Equivalent wholesale value of all sales.
[2] Does not include vegetable transplants grown for use in commercial vegetable production.

## Foilage Plant Production and Sales

| Year | Producers with Sales over $100,000 | Square Feet in Production | Net Value of Sales[1] | Sales at Wholesale |
|---|---|---|---|---|
| | *Number* | *1,000 Sq. Ft.* | *1,000 Dollars* | *Percent* |
| **1992** | **36** | **330** | **2,310** | **70** |
| 1991 | 19 | 250 | 3,010 | 55 |
| 1990 | 17 | 315 | 2,420 | 73 |

[1] Gross value of sales less cost of plant material purchased from others.

# Livestock and Poultry

## General Information

Total livestock cash receipts, at $1.29 billion, were up 1 percent from a year earlier. Receipts from the 1992 meat animal marketings in Michigan totaled $477 million, down 6 percent from the previous year. Falling market prices for cattle and hogs and decreased marketings of cattle led to lower receipts.

Cattle and calf cash receipts were down 3 percent. Cattle and calf liveweight marketed was down 1 percent, thus cash receipts fell due to lower market prices and a decrease in marketings. Cattle prices averaged $59.30 per hundredweight (cwt.), $1.50 less than the previous year. Cow prices averaged $47.30 per cwt, $1.60 less than 1991, with monthly cow prices peaking in March at $51.60 per cwt. Steer and heifer prices averaged $65.90, down $2.10 from 1991. Calf prices fell $10.10, averaging $88.10 per cwt. The January 1, 1993 cattle inventory in Michigan was 1.225 million head, 2 percent more than 1992's inventory.

The December 1, 1992 hog inventory at 1.28 million head, 20,000 head less than a year earlier. The breeding herd was unchanged from December 1991 and the market hog total was down 2 percent. At $40.00 per cwt., hog prices were down $7.10 from the previous year, a 15 percent decrease. Total hog and pig liveweight marketed in 1992 was up 8 percent from last year.

Sheep and lamb receipts, at $3.8 million, were down 3 percent from 1991. Sheep marketings (liveweight basis) decreased 22 percent. Sheep prices were $22.60 per cwt, up $5.90, while lamb prices rose $9.90, averaging $61.70 per cwt. The January 1, 1993 sheep and lamb inventory was 108,000 head. The value of wool shorn in 1992 was $263,000.

Value of production for eggs totaled $47.1 million and eggs averaged 40.4 cents per dozen. Turkey production estimates are no longer released to avoid disclosure of individual operations. The value of 1992 honey production totaled $3.81 million. Michigan's 7,000 Angora goats were valued at $60 per head. Mohair clipped during 1992 had a value of $73,000.

# Cattle And Calves

The January 1, 1993 cattle and calf inventory totaled 1,225,000 head, up 25,000 head from January 1,1992. Beef cow numbers on January 1 were up 8 percent to 115,000 head. The January milk cow inventory, 340,000 head, was up 2,000 head from a year earlier. Milk and beef cow replacement heifers were up 3 percent. The 1992 calf crop was 420,000 head, up 11 percent from 1991.

Cattle and calves on full feed for slaughter market totaled 220,000 head, 10,000 less than on January 1, 1992. Steers 500 pounds and over totaled 257,000 head, up 2 percent. The number of bulls increased from 18,000 to 19,000 head. Calves under 500 pounds on hand January 1, 1993 totaled 257,000 head, up 2 percent from the previous year. The January 1 Michigan cattle and calf inventory was valued at $931 million, up 6 percent from January 1, 1992. Cash receipts from cattle and calf marketings decreased 3 percent from 1991 while total liveweight marketed decreased 1 percent.

### Number on Farms by Class, January 1

| Class | 1993 | 1992 | 1991 | 1990 | 1989 |
|---|---|---|---|---|---|
| | | | *1,000 Head* | | |
| Cows and Heifers that have Calved | **455** | 444 | 450 | 475 | 470 |
| Beef Cows | **115** | 106 | 107 | 131 | 125 |
| Milk Cows | **340** | 338 | 343 | 344 | 345 |
| Heifers, 500 pounds and over | **237** | 234 | 225 | 220 | 230 |
| For Beef Cow replacement | **31** | 30 | 29 | 34 | 33 |
| For Milk Cow replacement | **163** | 159 | 158 | 154 | 157 |
| Other Heifers | **43** | 45 | 38 | 32 | 40 |
| Steers, 500 pounds and over | **257** | 252 | 268 | 248 | 238 |
| Bulls, 500 pounds and over | **19** | 18 | 17 | 17 | 17 |
| Calves, less than 500 pounds | **257** | 252 | 240 | 265 | 270 |
| All Catttle and Calves | **1,225** | 1,200 | 1,200 | 1,225 | 1,225 |

## Cattle and Calves Production and Income

| Year | Production[1] | Marketings[2] | Average Price per Cwt. | | Value of Production | Cash Receipts[3] | Value of Home Consumption | Gross Income |
|---|---|---|---|---|---|---|---|---|
| | | | Cattle | Calves | | | | |
| | *1,000 Pounds* | | *Dollars* | | | *1,000 Dollars* | | |
| **1992** | **427,230** | **455,655** | **59.30** | **88.10** | **259,266** | **275,369** | **10,072** | **285,441** |
| 1991 | 403,060 | 458,000 | 60.80 | 98.20 | 253,019 | 284,605 | 9,695 | 294,300 |
| 1990 | 389,305 | 426,700 | 63.20 | 99.00 | 249,257 | 275,323 | 10,043 | 285,366 |
| 1989 | 436,555 | 448,640 | 58.50 | 93.70 | 262,090 | 269,283 | 10,224 | 279,507 |
| 1988 | 440,635 | 450,810 | 56.10 | 85.40 | 252,155 | 258,869 | 14,347 | 273,216 |

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

## Balance Sheet

| Year | On Hand January 1 All Cattle and Calves | Calf Crop | Inship-ments | Marketings[1] | | Farm Slaughter Cattle and Calves[2] | Deaths | | On Hand Following January 1, All Cattle and Calves |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Cattle | Calves | | Cattle | Calves | |
| | *1,000 Head* | | | | | | | | |
| **1992** | **1,200** | **420** | **102** | **362** | **45** | **5** | **25** | **60** | **1,225** |
| 1991 | 1,200 | 380 | 98 | 350 | 43 | 5 | 25 | 55 | 1,200 |
| 1990 | 1,225 | 390 | 55 | 334 | 46 | 5 | 25 | 60 | 1,200 |
| 1989 | 1,225 | 440 | 50 | 346 | 56 | 3 | 20 | 65 | 1,225 |
| 1988 | 1,225 | 450 | 55 | 355 | 61 | 4 | 25 | 60 | 1,225 |

[1] Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

## Number of Livestock Operations

| Class | **1992** | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| Beef Cow[1] | **8,000** | 8,000 | 8,500 | 8,500 | 9,000 |
| Milk Cow[1] | **5,500** | 6,000 | 6,500 | 6,500 | 7,000 |
| Cattle[2] | **20,000** | 20,000 | 21,000 | 22,000 | 24,000 |

[1] Included in number of cattle operations.
[2] Any place having one or more head on hand at any time during the year.

## Cattle on Feed for Slaughter

| Year | January 1 |
|---|---|
| | *Head* |
| **1993** | **220,000** |
| 1992 | 210,000 |
| 1991 | 230,000 |
| 1990 | 220,000 |
| 1989 | 210,000 |

# Hogs and Pigs

Michigan hog inventories rise and fall with the production patterns of seasonal producers, many of whom farrow outdoors in the Southwest and South Central regions of the state. Not surprisingly, hog marketings are heaviest in the fall about six months after spring farrowings.

Though open-field farrowing is a big part of Michigan hog production, several other production methods are practiced throughout the state. Confined hog operations make a large, stable contribution to Michigan hog numbers each quarter. Strict feeder pig operations, operations using a combination of indoor and outdoor farrow to finish methods, and contract hog arrangements make Michigan swine production unique.

Nationally, Michigan's hog and pig inventory ranks 11th as of December 1, 1992. On December 1, 1992 Michigan had an inventory of 1.28 million hogs and pigs, down 20,000 head from 1991. The annual average price for hogs dropped significantly from the previous year. Barrows and gilts averaged $41.20 per hundredweight (cwt.) in 1992. Sow prices averaged $30.70 per cwt. The all hog price averaged $40.00 per cwt., $7.10 less than in 1991. Cash receipts from marketings and sale of farm slaughter for 1992 totaled $198.3 million, down 8 percent from 1991.

## Number of Hog Operations

[Any place having one or more head on hand at any time during the year]

| Year | December |
|---|---|
| **1992** | **5,000** |
| 1991 | 5,000 |
| 1990 | 5,500 |
| 1989 | 6,500 |
| 1988 | 7,000 |

## Hogs and Pigs Inventory

| Month and Year | Market Hogs and Pigs | | | | | Breeding Stock | Total Hogs & Pigs |
|---|---|---|---|---|---|---|---|
| | Under 60 Lbs. | 60 - 119 Lbs. | 120 - 179 Lbs. | 180 Lbs. and Over | Total Market | | |
| | *1,000 Head* | | | | | | |
| March 1 | | | | | | | |
| **1993** | **295** | **215** | **210** | **180** | **900** | **180** | **1,080** |
| 1992 | 305 | 220 | 210 | 185 | 920 | 180 | 1,100 |
| 1991 | 300 | 220 | 210 | 190 | 920 | 180 | 1,100 |
| 1990 | 315 | 235 | 220 | 190 | 960 | 190 | 1,150 |
| June 1 | | | | | | | |
| **1993** | **535** | **215** | **175** | **155** | **1,080** | **170** | **1,250** |
| 1992 | 550 | 230 | 175 | 165 | 1,120 | 180 | 1,300 |
| 1991 | 555 | 240 | 175 | 160 | 1,130 | 170 | 1,300 |
| 1990 | 575 | 245 | 165 | 145 | 1,130 | 170 | 1,300 |
| September 1 | | | | | | | |
| **1993** | | | | | | | |
| 1992 | 410 | 360 | 220 | 185 | 1,175 | 175 | 1,350 |
| 1991 | 410 | 360 | 230 | 175 | 1,175 | 175 | 1,350 |
| 1990 | 400 | 360 | 230 | 175 | 1,165 | 165 | 1,330 |
| December 1 | | | | | | | |
| **1993** | | | | | | | |
| 1992 | 350 | 250 | 265 | 240 | 1,105 | 175 | 1,280 |
| 1991 | 350 | 260 | 275 | 240 | 1,125 | 175 | 1,300 |
| 1990 | 330 | 250 | 255 | 245 | 1,080 | 170 | 1,250 |

## Sows Farrowed and Pig Crop, Spring

| Year | December - February | | | March-May | | | Total December - May | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sows Farrowed | Pigs per Litter | Pig Crop | Sows Farrowed | Pigs per Litter | Pig Crop | Sows Farrowed | Pigs per Litter | Pig Crop |
| | *1,000 Head* | *Head* | *1,000 Head* | | *Head* | *1,000 Head* | | *Head* | *1,000 Head* |
| **1993** | **47** | **7.9** | **371** | **86** | **7.8** | **671** | **133** | **7.8** | **1,042** |
| 1992 | 47 | 8.0 | 376 | 89 | 8.1 | 721 | 136 | 7.9 | 1,097 |
| 1991 | 45 | 7.9 | 356 | 83 | 7.9 | 656 | 128 | 7.9 | 1,012 |
| 1990 | 47 | 8.1 | 381 | 89 | 7.8 | 694 | 136 | 7.9 | 1,075 |
| 1989 | 48 | 7.8 | 374 | 85 | 7.8 | 663 | 133 | 7.8 | 1,037 |
| 1988 | 45 | 8.0 | 360 | 75 | 7.9 | 593 | 120 | 7.9 | 953 |

## Sows Farrowed and Pig Crop, Fall

| Year | June - August | | | September - November | | | Total June-November | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sows Farrowed | Pigs per Litter | Pig Crop | Sows Farrowed | Pigs per Litter | Pig Crop | Sows Farrowed | Pigs per Litter | Pig Crop |
| | *1,000 Head* | *Head* | *1,000* | *Head* | *Head* | *1,000 Head* | | *Head* | *1,000 Head* |
| **1992** | **74** | **7.9** | **585** | **58** | **7.9** | **458** | **132** | **7.9** | **1,043** |
| 1991 | 72 | 7.8 | 562 | 58 | 7.7 | 447 | 130 | 7.8 | 1,009 |
| 1990 | 74 | 7.7 | 566 | 52 | 8.1 | 421 | 126 | 7.9 | 987 |
| 1989 | 75 | 7.8 | 581 | 60 | 7.8 | 468 | 135 | 7.8 | 1,049 |
| 1988 | 80 | 7.5 | 600 | 55 | 7.8 | 429 | 135 | 7.6 | 1,029 |

## Balance Sheet

| Year | Beginning Inventory | Pig Crop | | Inshipments | Marketings[1] | Farm Slaughter2 | Deaths | Number on Hand December 1 |
|---|---|---|---|---|---|---|---|---|
| | | Dec. - May | June - Nov. | | | | | |
| | | | | | *1,000 Head* | | | |
| **1992** | **1,300** | **1,097** | **1,043** | **35** | **2,094** | **2** | **99** | **1,280** |
| 1991 | 1,250 | 1,012 | 1,009 | 52 | 1,930 | 4 | 89 | 1,300 |
| 1990 | 1,260 | 1,075 | 987 | 38 | 2,014 | 6 | 90 | 1,250 |
| 1989 | 1,250 | 1,037 | 1,049 | 34 | 2,014 | 6 | 90 | 1,260 |
| 1988 | 1,350 | 953 | 1,029 | 38 | 1,998 | 7 | 115 | 1,250 |

[1]Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2]Excludes custom slaughter for farmers at commercial establishments.

## Hogs and Pigs Production and Income

| Year | Production[1] | Marketings[2] | Average Price per Cwt. | Value of Production | Cash Receipts[3] | Value of Home Consumption | Gross Income |
|---|---|---|---|---|---|---|---|
| | *1,000 Pounds* | | *Dollars* | | | *1,000 Dollars* | |
| **1992** | **490,345** | **494,250** | **40.00** | **195,571** | **198,281** | **864** | **199,145** |
| 1991 | 459,696 | 457,506 | 47.10 | 216,097 | 216,234 | 904 | 217,138 |
| 1990 | 480,809 | 475,966 | 52.30 | 251,359 | 249,825 | 2,259 | 252,084 |
| 1989 | 471,985 | 475,392 | 41.50 | 195,988 | 197,907 | 1,195 | 199,102 |
| 1988 | 454,515 | 466,595 | 41.40 | 188,214 | 193,744 | 1,739 | 195,483 |

[1]Adjustments made for changes in inventory and for inshipments.
[2]Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3]Receipts from marketings and sales of farm slaughter. Includes allowance for highter average price of outshipments of feeder pigs.

# Sheep And Lambs

The January 1, 1993 sheep and lamb inventory of 108,000 head was up 5,000 head from the previous year. The stock sheep inventory, 80,000 head, was up 4 percent from last year. Sheep and lambs on feed totaled 28,000 head, up 2,000 from January 1, 1992. The 1992 Michigan lamb crop (lambs born October 1, 1991 - September 30, 1992) at 78,000 head remained unchanged from the previous year.

Sheep cash receipts dropped 3 percent from 1991. Sheep prices averaged $22.60 per hundredweight (cwt.) in 1992, $5.90 more than 1991. Lamb prices rose $9.90 to an average of $61.70 per cwt. Average wool prices increased 10 cents to $.36 per pound. Wool production, at 730,000 pounds, was down 2 percent. Although there was a 2 percent decrease in wool production, total wool receipts of $263,000 increased 35 percent from last year due to a 38 percent increase in price.

## Number on Farms by Class and Number of Operations, January 1

| Class | 1993 | 1992 | 1991 | 1990 | 1989 |
|---|---|---|---|---|---|
| | | | *1,000 Head* | | |
| Stock Sheep | | | | | |
| Ewe Lambs | **12** | 9 | 12 | 11 | 10 |
| Ram and Wether Lambs | **3** | 2 | 2 | 2 | 3 |
| Ewes, 1 year plus | **60** | 63 | 68 | 75 | 72 |
| Rams and Wethers, 1 year plus | **5** | 3 | 3 | 4 | 4 |
| Sheep and Lambs on Feed | **28** | 26 | 30 | 29 | 26 |
| All Sheep and Lambs | **108** | 103 | 115 | 121 | 115 |
| Number of Sheep Operations[1] | **2,400** | 2,500 | 2,600 | 2,600 | 2,500 |

[1]Any place having one or more head on hand at any time during the year.

## Balance Sheet

| Year | On Hand January 1 All Sheep and Lambs | Lamb Crop | Inshipments | Marketing[1] | | Farm Slaughter[2] | Deaths | | On Hand Following January 1 All Sheep and Lambs |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sheep | Lambs | | Sheep | Lambs | |
| | | | | | *1,000 Head* | | | | |
| **1992** | **103** | **78** | **1** | **9** | **52** | **1** | **3** | **9** | **108** |
| 1991 | 115 | 78 | 1 | 14 | 64 | 1 | 5 | 7 | 103 |
| 1990 | 121 | 85 | 0 | 18 | 59 | 1 | 3 | 10 | 115 |
| 1989 | 115 | 95 | 1 | 6 | 68 | 1 | 4 | 11 | 121 |
| 1988 | 105 | 90 | 2 | 4 | 60 | 1 | 4 | 13 | 115 |

[1]Includes custom slaughter and state outshipments, but excludes interfarm sales within Michigan.
[2]Excludes custom slaughter for farmers at commercial establishments.

## Sheep and Lambs Production and Income

| Year | Production[1] | Marketings[2] | Average Price Per Cwt. | | Value of Production | Cash Receipts[3] | Value of Home Consumption | Gross Income |
|---|---|---|---|---|---|---|---|---|
| | | | Sheep | Lambs | | | | |
| | *1,000 Pounds* | | *Dollars* | | | *1,000 Dollars* | | |
| **1992** | **7,715** | **6,975** | **22.60** | **61.70** | **4,309** | **3,829** | **204** | **4,033** |
| 1991 | 7,950 | 8,920 | 16.70 | 51.80 | 3,700 | 3,957 | 228 | 4,185 |
| 1990 | 8,345 | 9,050 | 16.00 | 55.00 | 4,094 | 4,030 | 151 | 4,181 |
| 1989 | 9,325 | 8,410 | 21.00 | 62.00 | 5,277 | 4,882 | 205 | 5,087 |
| 1988 | 8,647 | 7,277 | 22.00 | 66.00 | 5,082 | 4,565 | 218 | 4,783 |

[1]Adjustments made for changes in inventory and for inshipments.
[2]Excludes custon slaughter for use on farms where produced and interfarm sales within the state.
[3]Receipts from marketings and sale of farm slaughter.

## Wool Production and Value

| Year | Number Sheep Shorn | Weight per Fleece | Production | Price per Pound | Value of Production |
|---|---|---|---|---|---|
| | *Head* | *Pounds* | *1,000 Pounds* | *Cents* | *1,000 Dollars* |
| **1992** | **99,000** | **7.4** | **730** | **36** | **263** |
| 1991 | 95,000 | 7.9 | 746 | 26 | 194 |
| 1990 | 105,000 | 7.2 | 756 | 40 | 302 |
| 1989 | 108,000 | 7.4 | 796 | 75 | 597 |
| 1988 | 99,000 | 7.6 | 750 | 75 | 563 |

## Lamb Crop

| Year | Breeding Ewes 1 Yr. + January 1 | Lamb Crop per 100 Ewes 1 Yr. + | Lamb Crop |
|---|---|---|---|
| | *Head* | *Number* | *Head* |
| **1992** | **63,000** | **124** | **78,000** |
| 1991 | 68,000 | 115 | 78,000 |
| 1990 | 75,000 | 113 | 85,000 |
| 1989 | 72,000 | 132 | 95,000 |
| 1988 | 67,000 | 134 | 90,000 |

# Angora Goats And Mohair

Michigan conducted its fifth annual Angora goat survey during January, 1993. This showed the Angora goat inventory on January 1, 1993 to be 7,000 head, down 1,000 from a year earlier. Value per head averaged $60, up $5 from 1992. Total value of production was $420,000, down 5 percent. Angora goats are raised throughout the state and thrive well on land not well suited for field crop production.

Texas led all states in mohair production with 14.2 million pounds in 1992, accounting for 91 percent of production in the five major mohair states. Following Texas in order of production are: New Mexico, Oklahoma, Arizona, and Michigan. Despite the 5th place ranking, Michigan still leads the nation in average clip per goat, thanks to its colder climate.

Angora goats were first brought to the United States in the mid-nineteenth century. Since its introduction, mohair demand has flourished due to the durable, dyeable, even somewhat soil and fire resistent qualities of this natural fiber. At least one major setback was experienced during the 1960's when the proliferation of synthetic fibers depressed mohair demand. As natural fibers made a comeback, so did the mohair industry.

## Mohair Production and Value

| Year | Goats Clipped | Average Clip per Goat | Production | Price per Pound | Value |
|---|---|---|---|---|---|
| | | *Pounds* | *Pounds* | *Dollars* | *Dollars* |
| **1992** | **11,000** | **8.6** | **95,000** | **0.77** | **73,000** |
| 1991 | 14,000 | 8.0 | 112,000 | 1.39 | 156,000 |
| 1990 | 17,000 | 8.2 | 140,000 | 0.70 | 98,000 |

## Goat Inventory and Value, January 1

| Year | Head | Average Price per Head | Inventory Value |
|---|---|---|---|
| | | *Dollars* | *Dollars* |
| **1993** | **7,000** | **66** | **420,000** |
| 1992 | 8,000 | 55 | 440,000 |
| 1991 | 9,000 | 65 | 585,000 |
| 1990 | 12,000 | 65 | 780,000 |

# Poultry

The total value of poultry production in Michigan during 1992 from eggs, broilers, and other chickens (primarily culled layers) was over $48.8 million, 24 percent less than a year earlier. Turkey statistics are no longer published to avoid disclosure of individual operations. Eggs contributed the largest share of value for all poultry. The percentages of total poultry production value by commodity were: eggs 55 percent, other chickens and broilers about two percent each.

Michigan egg production in 1992 totaled 1.4 billion, unchanged from a year earlier. The market egg price averaged 39.7 cents per dozen, 13.2 cents less than the 1991 price. Michigan ranked 17th in total egg production in 1991.

Broiler production was valued at $996,000 in 1992, 42 percent more than 1991. This increase was due partly to a 3 cent rise in the average price per pound. Both the number of birds and total pounds produced decreased 28 percent. Broilers averaged 31.0 cents per pound. The value of sales of other chickens was up 24 percent from 1991. The average price per pound, at 4 cents, was up 33 percent from a year earlier.

## Number on Farms by Class, December 1

| Class | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | | | *1,000 Head* | | |
| Chickens | | | | | |
| Pullets of laying age | **3,450** | 3,600 | 3,500 | 3,600 | 3,600 |
| Hens | **1,750** | 1,800 | 2,000 | 2,000 | 2,200 |
| Pullets, 3 months plus | **570** | 900 | 465 | 650 | 570 |
| Pullets, less than 3 months | **525** | 490 | 720 | 730 | 1,000 |
| Other Chickens | **5** | 10 | 15 | 20 | 30 |
| All Chickens (excluding broilers) | **6,300** | 6,800 | 6,700 | 7,000 | 7,400 |

## Chickens: Average Number of Layers

| Month | 1992 | 1991 | 1990 |
|---|---|---|---|
| | *1,000 Head* | | |
| December | **5,500** | 5,400 | 5,550 |
| January | **5,650** | 5,450 | 5,600 |
| February | **5,700** | 5,400 | 5,600 |
| March | **5,550** | 5,250 | 5,450 |
| April | **5,301** | 5,300 | 5,250 |
| May | **5,150** | 5,350 | 5,200 |
| June | **5,101** | 5,300 | 5,150 |
| July | **5,101** | 5,300 | 5,150 |
| August | **5,150** | 5,300 | 5,250 |
| September | **5,200** | 5,150 | 5,250 |
| October | **5,150** | 5,001 | 5,200 |
| November | **5,150** | 5,201 | 5,300 |
| Annual Average[1] | **5,322** | 5,283 | 5,329 |

[1]December 1 previous year through November 30.

## Egg Production

| Month | 1992 | 1991 | 1990 |
|---|---|---|---|
| | *Million Eggs* | | |
| December | **124** | 121 | 120 |
| January | **126** | 120 | 123 |
| February | **120** | 112 | 114 |
| March | **123** | 121 | 123 |
| April | **112** | 115 | 114 |
| May | **115** | 118 | 116 |
| June | **109** | 114 | 112 |
| July | **114** | 120 | 116 |
| August | **116** | 117 | 118 |
| September | **109** | 109 | 114 |
| October | **115** | 113 | 117 |
| November | **115** | 116 | 119 |
| Total[1] | **1,398** | 1,396 | 1,406 |

[1]December 1 previous year through November 30.

## Chicken and Broiler Production and Income

| Year | Chickens (excluding broilers) | | | | Broilers | | | |
|---|---|---|---|---|---|---|---|---|
| | Number Sold | Pounds Sold | Price per Pound | Value of Sales | Number Produced | Pounds Produced | Price per Pound | Value of Production[1] |
| | *1,000 Head* | | *Cents* | *1,000 Dollars* | *1,000 Head* | *1,000 Pounds* | *Cents* | *1,000 Dollars* |
| **1992** | **4,000** | **18,800** | **4.0** | **752** | **730** | **3,212** | **31.0** | **996** |
| 1991 | 4,300 | 20,210 | 3.0 | 606 | 570 | 2,508 | 28.0 | 702 |
| 1990 | 4,100 | 19,270 | 8.0 | 1,542 | 780 | 3,432 | 34.5 | 1,184 |
| 1989 | 3,900 | 18,330 | 13.0 | 2,383 | 760 | 3,268 | 37.0 | 1,209 |
| 1988 | 5,300 | 24,380 | 7.5 | 1,829 | 770 | 3,311 | 29.0 | 1,159 |

[1]Gross income including home consumption.

# Trout

Michigan's 54 commercial trout operations sold 861,000 pounds of trout during the year ending August 31, 1992. Sales valued at $2.47 million placed Michigan 6th nationally and included sales of foodsize trout, stockers, fingerlings, and eggs. Over 60 percent of total sales were foodsize trout sales, which are usually 12 inches or longer. Stockers (6 to 12 inches), fingerlings (2 to 6 inches), and eggs made up the remaining sales components. Operations contributing to the sales total include: (1) fish farms who sell eggs and live fish to other operations for stocking purposes, (2) fish farms who sell dressed fish to restaurants and markets, and (3) recreational operations who open their waters for fee fishing. The most common trout species in Michigan are rainbow, brown, and brook trout which are raised both in earthen ponds and cement runways.

Losses of trout in Michigan amounted to nearly 322,000 fish, weighing 116,000 pounds. Predators and disease were the leading causes of death, with fish losses of 51 and 36 percent respectively.

## Number, Sales, Value and Number

| Item | Number of Fish | Total Pounds Sold | Average Value per Pound | Total Value of Sales |
|---|---|---|---|---|
| | *1,000* | | *Dollars* | *1,000 Dollars* |
| Foodsize[1] | | | | |
| **1992** | **680** | **600** | **2.58** | **1,550** |
| 1991 | 600 | 580 | 2.50 | 1,450 |
| 1990 | 550 | 540 | 2.10 | 1,135 |
| 1989 | 490 | 435 | 2.00 | 870 |
| Stockers[2] | | | | |
| **1992** | **665** | **200** | **2.58** | **515** |
| 1991 | 450 | 140 | 3.21 | 450 |
| 1990 | 450 | 141 | 2.87 | 405 |
| 1989 | 500 | 141 | 2.65 | 373 |
| Fingerlings[3] | | | | |
| **1992** | **1,355** | **61** | **6.72** | **410** |
| 1991 | 1,500 | 65 | 7.69 | 500 |
| 1990 | 1,000 | 60 | 6.50 | 390 |
| 1989 | 1,132 | 39 | 7.69 | 300 |
| | *Number* | | | |
| No. of Trout Operations | | | | |
| **1992** | **54** | | | |
| 1991 | 50 | | | |
| 1990 | 46 | | | |
| 1989 | 43 | | | |

[1] Foodsize are 12 inches or longer.
[2] Stockers are 6-12 inches long.
[3] Fingerlings are 2-6 inches long.

# Honey

Honey production in Michigan totaled 6.5 million pounds in 1992, 16 percent less than the previous year. This estimate only includes honey taken by producers with 5 or more colonies in production. Michigan has many "hobby" producers with less than 5 colonies and this data is excluded from the state estimate. Honey from hobby hives is chiefly for home use and not sold commercially.

Bee colonies totaled 95,000 in 1992 for producers with 5 or more hives, 10,000 less than the previous year. Yield per colony averaged 68 pounds, 5 pounds less than 1991. Honey prices averaged 59 cents per pound, 2 cents more than a year ago. This price excludes government support payments and loans. Value of honey production totaled $3.81 million, 13 percent less than 1991. Leading honey production areas include the rich fruit growing region of western Michigan, the "Thumb" and several counties in southeastern Michigan. Nationally, California, Florida, and North Dakota lead the

## Honey Production and Value

| Year | Colonies of Bees | Honey | | | | |
|---|---|---|---|---|---|---|
| | | Yield per Colony | Production | Average Price per Pound | Total Value | Stocks Dec. 15 |
| | | *Pounds* | *1,000 Pounds* | *Cents* | *1,000 Dollars* | *1,000 Pounds* |
| **1992** | **95,000** | **68** | **6,460** | **59** | **3,811** | **2,067** |
| 1991 | 105,000 | 73 | 7,665 | 57 | 4,369 | 2,683 |
| 1990 | 100,000 | 80 | 8,000 | 56 | 4,480 | 2,560 |
| 1989 | 102,000 | 70 | 7,140 | 56 | 3,998 | 1,642 |
| 1988 | 95,000 | 73 | 6,935 | 53 | 3,676 | 1,456 |

# Mink

Mink pelt production in Michigan decreased 16,000 in 1992 to 53,300 pelts. Michigan's national ranking remained 12th in 1992, with 1.8 percent of the U.S. total. Wisconsin led all states with 696,500 pelts produced in 1992. This represents a little more than 24 percent of the U.S. total mink pelt production.

Standards are the most popular color class in Michigan, representing 63 percent of Michigan's pelt production. Mahogany was second, accounting for 11.6 percent of the State's total. Color phase classes for Violet, Demi-Bluff, Pearl, White, Gun Metal, and Ranch Wild were not published to avoid disclosing individual operations. For 1992, Standards and Mahogany accounted for 75 percent of the State's total pelts. With a 17 percent reduction in female mink bred to produce kits in 1993, Michigan pelt production is expected to fall in 1994.

Commercial scale mink ranching goes back only a few decades in the United States. Before World War II, pelts were obtained from wild mink. These pelts varied widely because the animals differed in color, quality, and size from one geographical area to another. Also, wild mink were frequently trapped before they were prime. In contrast, modern mink ranching allows the harvest of fully prime pelts. Even more important, ranching permits controlled breeding and propagation of strains with desirable fur quality. More than half of Michigan's mink are raised in the Upper Peninsula, which furnishes an ideal climate for healthy fur.

## Pelt Production and Farms

| Item | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | *1,000 Pelts* | | | | |
| Pelt Production by Color Class: | | | | | |
| Standard | **33.6** | 51.6 | 54.0 | 87.9 | 69.0 |
| Ranch Wild | (1) | 0.2 | 1.1 | 16.8 | 17.7 |
| Demi-Buff | (1) | 3.9 | 6.2 | 17.5 | 14.8 |
| Pastel | **0.8** | 1.1 | 1.2 | 5.6 | 7.7 |
| Violet | (1) | 3.8 | 6.3 | 12.0 | 12.1 |
| Pearl | (1) | 3.4 | 5.6 | 9.0 | 8.9 |
| White | (1) | 1.9 | 6.4 | 6.1 | 5.0 |
| Mahogany | **6.2** | 1.6 | 1.7 | 26.5 | 23.7 |
| Other | (1) | 1.8 | 0.5 | 2.6 | 2.2 |
| Total | **53.3** | 69.3 | 83.0 | 184.0 | 161.1 |

| Item | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | *1,000 Females* | | | | |
| Females Bred to Produce Kits in Next Year | **15.3** | 18.4 | 21.8 | 25.6 | 47.0 |
| Mink Farms Producing Pelts | **15** | 22 | 35 | 54 | 56 |

[1] Not published to avoid disclosing individual operations.

# Dairy

## General Information

Milk prices received by most farmers are set by regional Federal milk marketing orders (FMO's) which maintain order in fluid milk markets. The Southern Michigan Milk Marketing Order, known as Federal Order 40, pools more than 90 percent of all milk produced in Michigan. Farmers affected by FMO's, such as Order 40, are paid from a pool of money received for their milk sold at different prices for different uses.

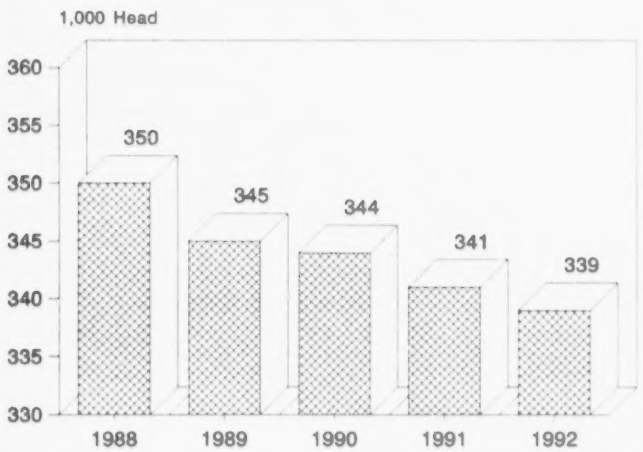
Most orders have three class utilizations of milk accompanied by distinct prices for each class. Fluid milk is designated as a Class I utilization. Class II milk utilization includes the soft dairy products; ice cream, fluid cream, cottage cheese, and yogurt. Then there are the Class III or hard dairy products; hard cheese, butter, and non-fat dry milk. For the FMO's which apply to most Michigan milk, the Class III price is the Minnesota-Wisconsin (M-W) price. The M-W price is the price paid for Grade B milk by unregulated Minnesota and Wisconsin processors. Minimum milk class prices are established for all 41 FMO's in the United States based on specified relationships to the M-W price.

In addition to FMO's, a Federal price support program is in effect to guarantee milk prices at or above a legislated level. The government supports this minimum price by making purchases of Class III products. For example, if the M-W price was to fall below the legislated price minimum, the government might buy cheese to maintain the price support level. This in turn supports the prices for milk marketed through the FMO's because the pricing mechanism is based on the M-W price.

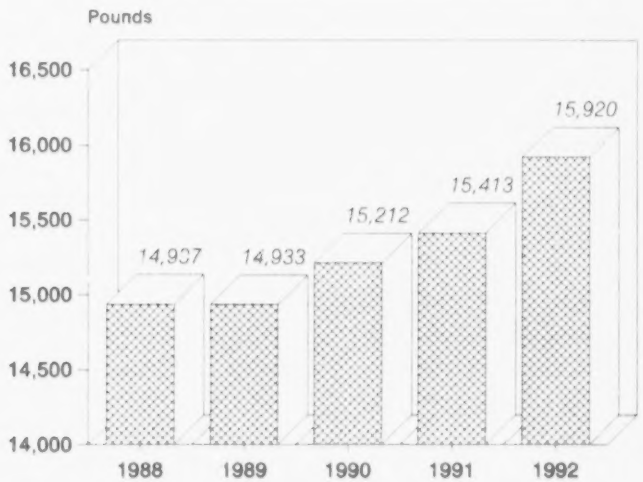
However, the Michigan milk price system may be undergoing a change. The Secretary of Agriculture scheduled a hearing to implement a multiple component pricing system for Federal Order 40. Currently, producers are paid for the amount of butterfat contained in the milk. Under a new system, multiple component pricing system, producers would be payed for amount of proteins, butterfat, and sematic cells.

A thorough review of the M-W price series is underway with the help of the USDA's National Agricultural Statistics Service. Falling Grade B milk production in Minnesota and Wisconsin is rendering the M-W price unusable for formulating milk prices. This is in part a result of more stringent sanitary requirements on dairy farms. Eventually, there will not be enough Grade B milk sold to make a reliable base price. Alternatives are being researched for possible implementation in the summer. Parallel price series may be run to assure new models respond to seasonal swings in production and consumption.

### Average Number of Milk Cows on Farms




### Average Production Per Cow



# Cows and Milk Production

Michigan milk production increased three percent in 1992. Michigan dairy herds produced 5.40 billion pounds of milk. Milk prices were highest in January at $13.80 per hundredweight (cwt.), but at its lowest during March through May.

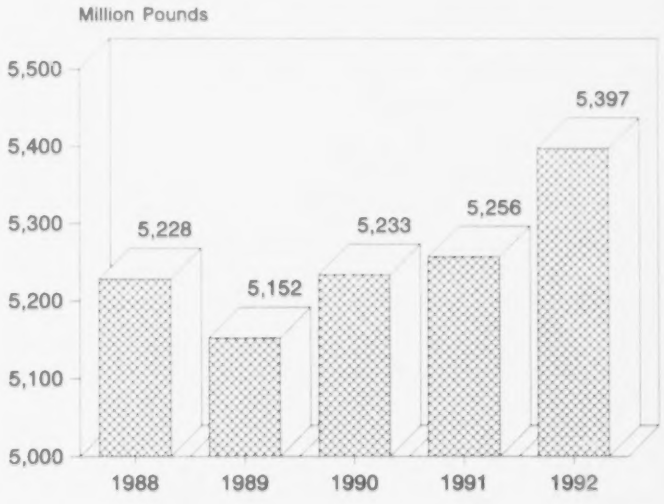
Estimated at 339,000 head, the average number of milk cows on Michigan farms fell for the seventh year in a row. The 1992 milk price averaged $13.30 per cwt. in 1992, $.90 more than in 1991. Farm prices received for cows averaged $47.30 per cwt. in 1992, $1.60 less than the previous year. Milk cows for dairy herd replacement were more costly, averaging $1,170 per head, up $10 from 1991.

Michigan placed 7th nationally, ranking states by their annual milk production. Michigan milk was 4.2 percent of total U.S. production. Texas narrowly edged out Michigan for 6th place with a state herd 37,000 head more than Michigan's.

## Milk Cows on Farms

| Month | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | *1,000 Head* | | | | |
| January | **338** | 344 | 343 | 343 | 357 |
| February | **338** | 344 | 344 | 345 | 355 |
| March | **338** | 344 | 344 | 345 | 354 |
| April | **338** | 345 | 345 | 345 | 352 |
| May | **338** | 345 | 345 | 345 | 352 |
| June | **338** | 345 | 345 | 345 | 351 |
| July | **340** | 345 | 345 | 345 | 350 |
| August | **340** | 345 | 345 | 346 | 348 |
| September | **340** | 345 | 345 | 344 | 347 |
| October | **340** | 343 | 343 | 344 | 345 |
| November | **340** | 343 | 343 | 344 | 345 |
| December | **340** | 343 | 343 | 344 | 345 |
| Average | **339** | 341 | 344 | 345 | 350 |

## Total Milk Production




## Total Milk Production

| Month | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | *Million Pounds* | | | | |
| January | **450** | 422 | 435 | 439 | 439 |
| February | **429** | 410 | 404 | 407 | 417 |
| March | **460** | 453 | 447 | 450 | 448 |
| April | **443** | 442 | 438 | 438 | 431 |
| May | **463** | 456 | 454 | 452 | 452 |
| June | **458** | 445 | 443 | 438 | 448 |
| July | **466** | 452 | 459 | 436 | 457 |
| August | **459** | 445 | 457 | 434 | 437 |
| September | **445** | 430 | 428 | 413 | 429 |
| October | **447** | 434 | 427 | 416 | 428 |
| November | **428** | 414 | 412 | 406 | 411 |
| December | **449** | 433 | 429 | 423 | 431 |
| Annual | **5,397** | 5,256 | 5,233 | 5,152 | 5,228 |

## Milk Production per Cow

| Month | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | *Pounds* | | | | |
| January | **1,330** | 1,285 | 1,265 | 1,280 | 1,230 |
| February | **1,270** | 1,195 | 1,175 | 1,180 | 1,175 |
| March | **1,360** | 1,320 | 1,300 | 1,305 | 1,265 |
| April | **1,310** | 1,290 | 1,270 | 1,270 | 1,225 |
| May | **1,370** | 1,330 | 1,315 | 1,310 | 1,285 |
| June | **1,350** | 1,300 | 1,285 | 1,270 | 1,275 |
| July | **1,370** | 1,330 | 1,330 | 1,265 | 1,305 |
| August | **1,350** | 1,310 | 1,325 | 1,255 | 1,255 |
| September | **1,310** | 1,265 | 1,240 | 1,200 | 1,235 |
| October | **1,315** | 1,275 | 1,245 | 1,210 | 1,240 |
| November | **1,260** | 1,220 | 1,200 | 1,180 | 1,190 |
| December | **1,320** | 1,280 | 1,250 | 1,230 | 1,250 |
| Annual | **15,920** | 15,413 | 15,212 | 14,933 | 14,937 |

## Farms, Milk Production, Utilization, Marketing and Value

| Production And Use | Unit | 1992 | 1991 | 1990 | 1989 |
|---|---|---|---|---|---|
| **Farms** | | | | | |
| Number of operations with milk cows[1] | Number | **5,560** | 6,000 | 6,500 | 6,500 |
| Number of grade A herds | Number | **4,500** | 4,900 | 4,900 | 5,100 |
| **Production And Utilization** | | | | | |
| Production of milk | | | | | |
| Total milk produced on farms | Mil. Lbs. | **5,397** | 5,256 | 5,233 | 5,152 |
| Milkfat produced | Mil. Lbs. | **198.6** | 191.3 | 191 | 190.0 |
| Percentage of milkfat | Percent | **3.68** | 3.65 | 3.65 | 368.00 |
| Utilization | | | | | |
| Milk Marketed by Producers | | | | | |
| Sold to plants and dealers as whole milk[2] | Mil. Lbs. | **5,310** | 5,150 | 5,150 | 5,080 |
| Sold directly to consumers | Mil. Lbs. | **17** | 16 | 13 | 12 |
| Milk used where produced | | | | | |
| Fed to calves | Mil. Lbs. | **59** | 80 | 60 | 50 |
| Used by farm household | Mil. Lbs. | **11** | 10 | 10 | 10 |
| **Marketings** | | | | | |
| Milk Marketed by Producers | | | | | |
| Sold to plants and dealers | | | | | |
| Quantity[2] | Mil. Lbs. | **5,310** | 5,150 | 5,150 | 5,080 |
| Percent fluid grade | Percent | **99** | 98 | 98 | 98 |
| Price per 100 pounds | Dollars | **13.30** | 12.40 | 14.10 | 13.60 |
| Cash receipts | 1,000 Dol. | **706,230** | 638,600 | 726,150 | 690,880 |
| Sold Directly to Consumers | | | | | |
| Quantity | 1,000 Qts. | **7,907** | 7,442 | 6,047 | 5,581 |
| Price per quart | Dollars | **0.64** | 0.61 | 0.55 | 0.55 |
| Cash receipts | 1,000 Dol. | **5,060** | 4,540 | 3,326 | 3,070 |
| Total Marketings | | | | | |
| Milk utilized | Mil. Lbs. | **5,327** | 5,166 | 5,163 | 5,092 |
| Price per 100 pounds of milk | Dollars | **13** | 12 | 14 | 14 |
| Price per pound milkfat | Dollars | **4** | 3 | 4 | 4 |
| Total cash receipts | 1,000 Dol. | **711,290** | 643,140 | 729,476 | 693,950 |
| **Value** | 1,000 Dol. | | | | |
| Value of milk used where produced[3] | | **9,345** | 11,204 | 9,890 | 8,177 |
| **Total Value Of Milk Produced** | 1,000 Dol. | **720,637** | 654,344 | 739,366 | 702,127 |

[1] Any place having one or more milk cows on hand at any time during the year.
[2] Includes the equivalent amounts of milk for cream sold to plants and dealers.
[3] Includes value of milk fed to calves and milk used by farm households.

# Dairy Products

The production of butter in Michigan decreased 1 percent from 1991 to 18.4 million pounds in 1992. That placed Michigan ninth in butter production. Ice cream production decreased 4 percent to 27.0 million gallons. Michigan ranked eleventh in Ice Cream production. Milk Sherbet increased 26

## Dairy Products Manufactured

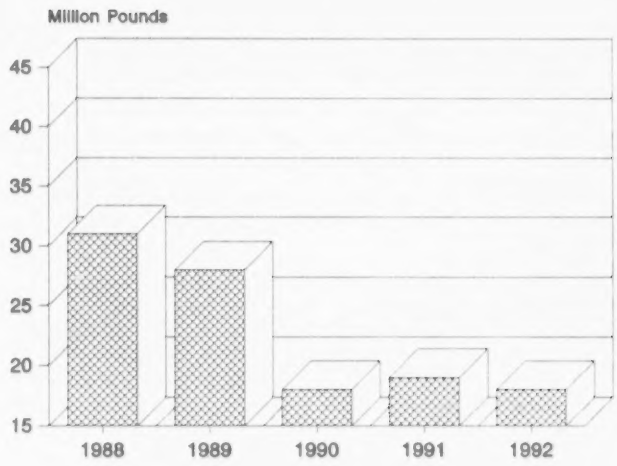
| Product | 1992 | 1991 | 1990 | 1989 | 1988 |
|---|---|---|---|---|---|
| | | | *1,000 Pounds* | | |
| Butter | **18,442** | 18,547 | 18,021 | 27,635 | 31,058 |
| Total Cheese | (1) | (1) | 107,890 | 73,673 | 69,043 |
| Cottage Cheese | | | | | |
| Curd | **23,013** | 20,833 | 15,562 | 15,300 | 19,359 |
| Creamed | **15,151** | 22,522 | 18,211 | 16,777 | 24,600 |
| Low Fat | **5,615** | 8,010 | 6,504 | – | – |
| Dried Milk | | | | | |
| Buttermilk | **2,471** | 1,033 | 1,028 | – | – |
| Nonfat for human food | **17,742** | 25,718 | 16,425 | 34,342 | 59,068 |
| | | | *1,000 Gallons* | | |
| Frozen Products | | | | | |
| Ice Cream | **26,966** | 28,194 | 27,217 | 27,421 | 29,378 |
| Ice Milk | **11,944** | 13,119 | 12,568 | 14,451 | 13,621 |
| Sherbet | **2,025** | 1,603 | 1,646 | 1,971 | 2,179 |
| Other | **2,584** | 3,226 | 1,158 | – | – |
| Mix Produced | | | | | |
| Ice Cream | **13,872** | 14,365 | 13,650 | 12,937 | 14,296 |
| Ice Milk | **7,057** | 8,160 | 7,216 | 7,574 | 7,837 |
| Milk Sherbet | **1,289** | 989 | 1,032 | 1,173 | 1,310 |
| Water Ices | **349** | 388 | 260 | – | – |

[1] Not published to avoid disclosing individual operations.

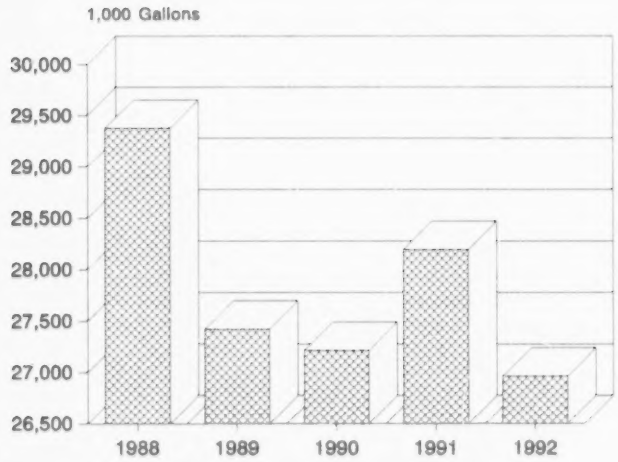
## Butter Production

| Month | 1992 | 1991 | 1990 | 1989 |
|---|---|---|---|---|
| | *1,000 Pounds* | | | |
| January | **1,725** | 1,501 | 1,177 | 2,361 |
| February | **1,458** | 1,652 | 1,349 | 2,759 |
| March | **1,483** | 1,571 | 1,775 | 3,317 |
| April | **1,582** | 1,712 | 1,637 | 3,426 |
| May | **1,389** | 1,810 | 1,737 | 3,846 |
| June | **1,494** | 1,308 | 1,560 | 2,046 |
| July | **1,701** | 1,151 | 1,484 | 1,590 |
| August | **1,608** | 1,479 | 1,388 | 1,836 |
| September | **1,522** | 1,159 | 1,173 | 1,445 |
| October | **1,431** | 1,687 | 1,439 | 1,640 |
| November | **1,773** | 1,665 | 1,482 | 1,692 |
| December | **1,276** | 1,852 | 1,820 | 1,677 |
| Annual | **18,442** | 18,547 | 18,021 | 27,635 |

## Butter Production




## Ice Cream Production




## Ice Cream Production

| Month | 1992 | 1991 | 1990 | 1989 |
|---|---|---|---|---|
| | *1,000 Gallons* | | | |
| January | **1,893** | 1,790 | 1,882 | 1,995 |
| February | **1,832** | 1,921 | 1,807 | 2,015 |
| March | **2,605** | 2,224 | 2,344 | 2,361 |
| April | **2,397** | 2,535 | 2,103 | 2,062 |
| May | **2,395** | 2,971 | 2,571 | 2,839 |
| June | **2,669** | 2,969 | 2,659 | 2,946 |
| July | **3,140** | 3,266 | 3,128 | 3,040 |
| August | **2,763** | 3,025 | 2,905 | 2,738 |
| September | **2,325** | 2,315 | 2,346 | 2,124 |
| October | **1,706** | 1,946 | 2,080 | 1,871 |
| November | **1,705** | 1,516 | 1,712 | 1,793 |
| December | **1,536** | 1,716 | 1,680 | 1,637 |
| Annual | **26,966** | 28,194 | 27,217 | 27,421 |

## Ice Milk Production

| Month | 1992 | 1991 | 1990 | 1989 |
|---|---|---|---|---|
| | *1,000 Gallons* | | | |
| January | **675** | 462 | 723 | 731 |
| February | **723** | 550 | 820 | 718 |
| March | **1,202** | 987 | 1,189 | 1,108 |
| April | **911** | 1,185 | 1,531 | 1,174 |
| May | **1,295** | 1,696 | 1,372 | 1,705 |
| June | **1,277** | 1,845 | 1,423 | 1,800 |
| July | **1,416** | 1,804 | 1,472 | 1,886 |
| August | **1,367** | 1,684 | 1,323 | 1,700 |
| September | **1,074** | 711 | 878 | 1,011 |
| October | **790** | 823 | 763 | 954 |
| November | **557** | 766 | 575 | 849 |
| December | **657** | 606 | 499 | 815 |
| Annual | **11,944** | 13,119 | 12,568 | 14,451 |

## Milk Sherbet Production

| Month | 1992 | 1991 | 1990 | 1989 |
|---|---|---|---|---|
| | *1,000 Gallons* | | | |
| January | **114** | 95 | 92 | 128 |
| February | **160** | 112 | 138 | 157 |
| March | **165** | 213 | 127 | 152 |
| April | **193** | 139 | 155 | 184 |
| May | **160** | 142 | 177 | 167 |
| June | **193** | 207 | 190 | 270 |
| July | **218** | 157 | 166 | 179 |
| August | **145** | 141 | 154 | 191 |
| September | **168** | 79 | 116 | 135 |
| October | **122** | 131 | 126 | 133 |
| November | **156** | 78 | 95 | 114 |
| December | **231** | 109 | 110 | 161 |
| Annual | **2,025** | 1,603 | 1,646 | 1,971 |

## Top Ten Agricultural Counties

[Rankings based on 1992 County Estimates.]

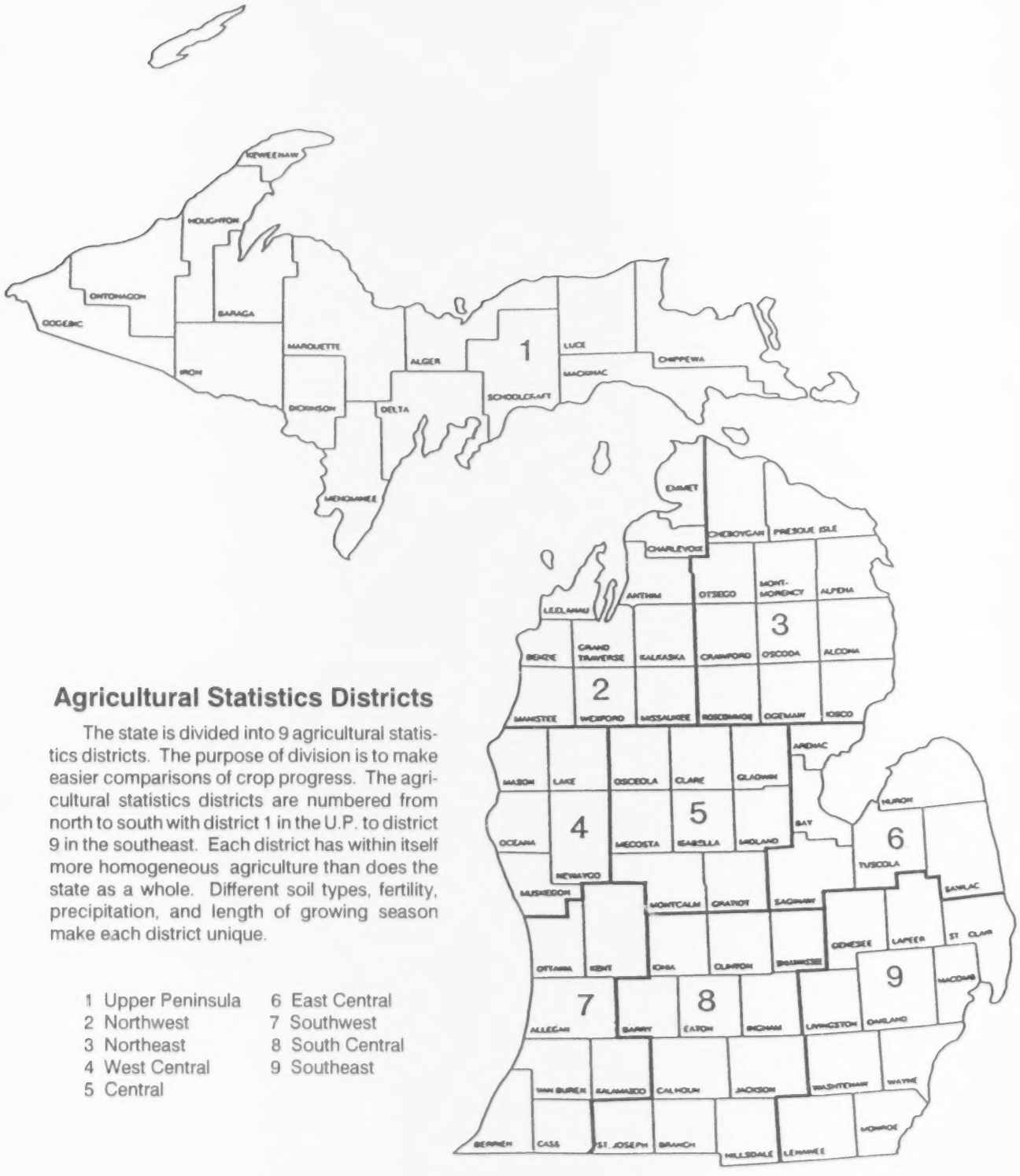
| Rank | Corn[1] | Soybeans[2] | Dry Beans[2] | All Cattle[3] | Milk Cows[3] | All Hogs[3] | Farms[4] |
|---|---|---|---|---|---|---|---|
| 1 | Lenawee | Lenawee | Huron | Huron | Sanilac | Cass | Allegan |
| 2 | St. Joseph | Saginaw | Tuscola | Sanilac | Huron | Allegan | Sanilac |
| 3 | Branch | Monroe | Gratiot | Allegan | Clinton | Ottawa | Berrien |
| 4 | Huron | Shiawassee | Bay | Ottawa | Ottawa | Branch | Ottawa |
| 5 | Allegan | Clinton | Sanilac | Clinton | Allegan[5] | Van Buren | Saginaw |
| 6 | Saginaw | Gratiot | Montcalm | Ionia | Ionia | St. Joseph | Huron |
| 7 | Tuscola | Hillsdale | Saginaw[6] | Kent | Kent | Huron | Lenawee |
| 8 | Calhoun | Sanilac | Arenac | Isabella | Isabella | Calhoun | Kent |
| 9 | Sanilac | Branch | Midland | Lenawee | Montcalm | Hillsdale | Clinton |
| 10 | Gratiot | Eaton | Eaton | Lapeer | Missaukee | Ionia | Van Buren |

[1] Based on grain production.
[2] Based on production.
[3] Based on number of head.
[4] Based on 1987 Census of Agriculture.
[5] Ottawa and Allegan tied for fourth place.
[6] Montcalm and Saginaw tied for sixth place.

## Distribution of Selected Crop and Livestock Items by Michigan Agricultural Statistics Districts, 1992 - 1993

| Item | Agricultural Statistics Districts | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | Percent of State Total | | | | | | | | |
| **Crop Acreage 1992** | | | | | | | | | |
| All Corn | 0.9 | 1.6 | 1.5 | 2.8 | 9.8 | 19.6 | 15.7 | 31.1 | 17.0 |
| Corn for Grain | 0.2 | 0.7 | 0.7 | 2.1 | 9.1 | 19.4 | 16.7 | 33.1 | 18.0 |
| Corn for Silage | 4.2 | 6.7 | 5.2 | 6.1 | 14.2 | 21.2 | 10.6 | 21.2 | 10.6 |
| Wheat | 0.3 | 0.9 | 1.5 | 1.2 | 10.0 | 26.5 | 8.2 | 29.9 | 21.5 |
| Soybeans | -- | -- | 0.1 | 0.4 | 9.3 | 21.0 | 9.5 | 33.8 | 25.9 |
| Oats | 7.7 | 4.1 | 12.2 | 3.9 | 11.4 | 25.0 | 8.2 | 15.7 | 11.8 |
| All Dry Beans | 0.3 | 0.5 | 1.5 | 0.1 | 22.2 | 67.6 | 1.0 | 4.4 | 2.4 |
| Barley | 24.0 | 3.7 | 12.7 | 2.0 | 8.3 | 30.4 | 6.3 | 6.3 | 6.3 |
| Potatoes | 9.3 | 6.3 | 10.9 | 0.4 | 28.3 | 25.2 | 5.7 | 5.4 | 8.5 |
| Sugarbeets | -- | -- | -- | -- | 16.7 | 78.8 | -- | -- | 4.5 |
| **Livestock** | | | | | | | | | |
| **January 1, 1993** | | | | | | | | | |
| All Cattle and Calves | 4.8 | 4.8 | 5.6 | 4.7 | 12.7 | 17.1 | 13.9 | 23.7 | 12.7 |
| Milk Cows | 4.7 | 4.7 | 5.0 | 5.3 | 13.2 | 17.1 | 14.7 | 24.1 | 11.2 |
| Beef Cows | 8.7 | 7.0 | 10.4 | 3.9 | 13.9 | 5.7 | 13.9 | 24.3 | 12.2 |
| All Sheep and Lambs | 5.1 | 1.9 | 4.2 | 3.2 | 8.3 | 4.6 | 11.6 | 29.6 | 31.5 |
| **December 1, 1992** | | | | | | | | | |
| All Hogs and Pigs | 0.3 | 1.1 | 0.6 | 1.9 | 6.2 | 7.0 | 43.0 | 31.2 | 8.7 |
| Sows Farrowed | 0.4 | 1.1 | 0.6 | 2.2 | 6.2 | 6.3 | 43.7 | 30.6 | 8.9 |
| Hens and Pullets of Laying Age | 0.2 | 0.1 | 0.1 | 2.2 | 4.3 | 18.6 | 53.6 | 19.4 | 1.5 |

# County Estimates




## Agricultural Statistics Districts

The state is divided into 9 agricultural statistics districts. The purpose of division is to make easier comparisons of crop progress. The agricultural statistics districts are numbered from north to south with district 1 in the U.P. to district 9 in the southeast. Each district has within itself more homogeneous agriculture than does the state as a whole. Different soil types, fertility, precipitation, and length of growing season make each district unique.

1 Upper Peninsula
2 Northwest
3 Northeast
4 West Central
5 Central
6 East Central
7 Southwest
8 South Central
9 Southeast

# 1992 Rank of Michigan's Counties

[Rankings based on 1992 County Estimates]

| County | Farms[1] | Corn[2] | Soy-beans[3] | Wheat[3] | Dry Beans[3] | Oats[3] | Potatoes[3] | Barley[3] | All Cattle[4] | Milk Cows[4] | All Hogs[4] | HPLA[5] | Sheep[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alger | 76 | -- | -- | -- | -- | 72 | -- | 10 | *70 | 71 | -- | -- | *24 |
| Baraga | 78 | -- | -- | -- | -- | *62 | -- | *37 | 77 | *69 | -- | -- | -- |
| Chippewa | 48 | -- | -- | 57 | -- | 17 | -- | *53 | 44 | *45 | *70 | -- | *18 |
| Delta | 56 | 59 | -- | 56 | 23 | *19 | 11 | 2 | 43 | 40 | 51 | -- | *67 |
| Dickinson | 69 | 60 | -- | -- | -- | *59 | 9 | *21 | 66 | *61 | *62 | -- | -- |
| Gogebic | 77 | -- | -- | -- | -- | -- | -- | -- | 81 | *77 | -- | -- | -- |
| Houghton | 65 | -- | -- | -- | -- | *59 | -- | *31 | 69 | *65 | -- | 19 | *49 |
| Iron | 72 | -- | -- | 63 | -- | 51 | 26 | *40 | *72 | *74 | *72 | -- | *43 |
| Keweenaw | 83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Luce | 80 | -- | -- | 68 | -- | -- | *18 | *31 | 76 | -- | *72 | -- | -- |
| Mackinac | 75 | -- | -- | 69 | -- | *68 | -- | *48 | 62 | *56 | *72 | -- | *67 |
| Marquette | 71 | 71 | -- | -- | -- | *57 | 21 | *11 | *74 | *69 | *66 | -- | *58 |
| Menominee | 47 | 49 | -- | 67 | -- | 27 | -- | 3 | 27 | 19 | *59 | *25 | *43 |
| Ontonagon | 67 | -- | -- | -- | -- | 48 | -- | -- | 61 | *65 | -- | -- | *55 |
| Schoolcraft | 79 | 69 | 50 | 58 | -- | 53 | 27 | 7 | *70 | *74 | *62 | -- | *67 |
| **Upper Peninsula (1)** | | | | | | | | | | | | | |
| Antrim | 57 | 54 | -- | 62 | 36 | 50 | 6 | 60 | 58 | *52 | *49 | -- | *49 |
| Benzie | 64 | 68 | -- | -- | -- | -- | -- | -- | *74 | *77 | 54 | -- | *67 |
| Charlevoix | 58 | *55 | -- | -- | -- | 70 | -- | *27 | 56 | *52 | *55 | 24 | *58 |
| Emmet | 61 | 61 | -- | -- | -- | *54 | *28 | *34 | *54 | 55 | *59 | -- | *58 |
| Grand Traverse | 42 | 46 | 52 | 45 | -- | 45 | -- | *34 | *54 | *56 | *37 | -- | *58 |
| Kalkaska | 73 | 57 | -- | 59 | -- | -- | 15 | -- | 78 | *72 | 53 | -- | *67 |
| Leelanau | 46 | 51 | -- | 64 | -- | *68 | -- | -- | *59 | *63 | *55 | *25 | *67 |
| Manistee | 55 | *63 | -- | 61 | 22 | 73 | -- | -- | 67 | *74 | *62 | -- | *58 |
| Missaukee | 51 | 50 | -- | 52 | -- | 32 | -- | 61 | 18 | 10 | 43 | -- | *49 |
| Wexford | 62 | *63 | 48 | 55 | -- | 71 | -- | 57 | 63 | 60 | *66 | -- | *67 |
| **Northwest (2)** | | | | | | | | | | | | | |
| Alcona | 59 | 62 | 54 | 53 | 26 | 65 | -- | *51 | 50 | *56 | *72 | -- | *28 |
| Alpena | 44 | 52 | 47 | 44 | 18 | *3 | 13 | *11 | 38 | 35 | *57 | -- | *37 |
| Cheboygan | 63 | 67 | -- | 66 | 38 | 66 | -- | *14 | 53 | 49 | *57 | *25 | *49 |
| Crawford | 82 | -- | -- | -- | -- | -- | -- | -- | 82 | -- | -- | -- | *67 |
| Iosco | 60 | 45 | 49 | 43 | 33 | 29 | -- | *48 | *41 | *45 | 47 | -- | *58 |
| Montmorency | 70 | *55 | 51 | 51 | *30 | 33 | -- | *14 | 64 | *56 | *66 | -- | *49 |
| Ogemaw | 54 | 43 | 53 | 39 | 37 | *23 | -- | 8 | 30 | 27 | *49 | -- | *43 |
| Oscoda | 74 | *63 | -- | -- | -- | -- | -- | -- | 68 | *65 | *70 | -- | *40 |
| Otsego | 66 | 70 | -- | 60 | -- | *54 | 17 | *40 | 65 | *65 | *59 | *25 | *67 |
| Presque Isle | 53 | 58 | 55 | 47 | 20 | 5 | 3 | *5 | *41 | *41 | 46 | *25 | *67 |
| Roscommon | 81 | -- | -- | -- | -- | -- | -- | -- | *79 | -- | *72 | -- | *67 |
| **Northeast (3)** | | | | | | | | | | | | | |
| Lake | 68 | 66 | -- | 65 | -- | 67 | -- | -- | *72 | *72 | *66 | *25 | *49 |
| Mason | 43 | *41 | 41 | 36 | -- | 31 | -- | 39 | 45 | *36 | 40 | *25 | *22 |
| Muskegon | 40 | 37 | 39 | 46 | -- | 30 | -- | *48 | *35 | 31 | 34 | *25 | *55 |
| Newaygo | 34 | 38 | 43 | 48 | -- | 37 | -- | 47 | *21 | *13 | *37 | 9 | *37 |
| Oceana | 35 | 44 | 45 | 49 | -- | *59 | -- | -- | *33 | 34 | 31 | 13 | *55 |
| **West Central (4)** | | | | | | | | | | | | | |
| Clare | 52 | 53 | 46 | 42 | -- | 35 | -- | *25 | 37 | *36 | 30 | -- | 27 |
| Gladwin | 45 | 40 | 40 | 35 | 17 | *23 | -- | *53 | 46 | *50 | 44 | *25 | *30 |
| Gratiot | 23 | 10 | 6 | 14 | 3 | 34 | *28 | -- | 12 | 15 | 19 | *11 | *35 |

# 1992 Rank of Michigan's Counties (continued)

[Rankings based on 1992 County Estimates]

| County | Farms[1] | Corn[2] | Soy-beans[3] | Wheat[3] | Dry Beans[3] | Oats[3] | Potatoes[3] | Barley[3] | All Cattle[4] | Milk Cows[4] | All Hogs[4] | HPLA[5] | Sheep[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Isabella | 27 | 32 | 24 | 17 | 11 | 7 | -- | 9 | 8 | 8 | 21 | 6 | *22 |
| Mecosta | 37 | *41 | 42 | *40 | 16 | 46 | 4 | *34 | 26 | 23 | 33 | *25 | *16 |
| Midland | 41 | 34 | 26 | 33 | 9 | 52 | 32 | -- | 51 | *63 | 35 | *25 | *58 |
| Montcalm | 24 | 26 | *30 | 11 | *6 | *10 | 1 | 16 | *13 | 9 | 28 | *25 | *35 |
| Osceola | 39 | 48 | 44 | 54 | -- | *39 | 31 | 24 | 25 | *20 | 45 | *25 | *30 |
| **Central (5)** | | | | | | | | | | | | | |
| Arenac | 50 | 36 | 34 | 29 | 8 | 15 | 12 | *27 | 47 | *38 | 36 | -- | *58 |
| Bay | 26 | 23 | 21 | *25 | 4 | *39 | 2 | *58 | 57 | *50 | 52 | -- | *58 |
| Huron | 6 | 4 | 28 | 1 | 1 | 1 | 22 | 1 | 1 | 2 | 7 | 4 | *43 |
| Saginaw | 5 | 6 | 2 | 5 | *6 | *25 | *18 | *37 | 31 | 29 | 29 | *25 | *16 |
| Sanilac | 2 | 9 | 8 | 2 | 5 | 2 | 10 | 4 | 2 | 1 | *25 | *25 | 39 |
| Tuscola | 15 | 7 | 11 | 3 | 2 | *3 | 7 | *5 | 20 | *20 | *25 | 7 | *24 |
| **East Central (6)** | | | | | | | | | | | | | |
| Allegan | 1 | 5 | 25 | 23 | -- | *21 | 5 | 23 | 3 | *4 | 2 | 2 | 8 |
| Berrien | 3 | 22 | 17 | 28 | -- | 74 | -- | *53 | 49 | 44 | 18 | *25 | *43 |
| Cass | 32 | 11 | 18 | 30 | -- | 36 | -- | *19 | 40 | *45 | 1 | 22 | 13 |
| Kalamazoo | 31 | 17 | 20 | 27 | 25 | 47 | -- | *58 | *35 | *41 | *15 | 5 | 4 |
| Kent | 8 | 29 | 36 | 24 | 14 | 14 | 23 | *25 | 7 | 7 | 23 | 25 | *30 |
| Ottawa | 4 | 27 | *37 | 34 | -- | 38 | -- | *43 | 4 | *4 | 3 | 1 | *40 |
| Van Buren | 10 | 28 | 32 | 38 | -- | 64 | -- | *19 | 39 | 43 | 5 | 8 | *24 |
| **Southwest (7)** | | | | | | | | | | | | | |
| Barry | 28 | 31 | 23 | *21 | 34 | 49 | -- | *27 | 19 | 16 | 20 | *25 | *10 |
| Branch | 22 | 3 | 9 | 31 | *30 | 28 | -- | 42 | *21 | 30 | 4 | *25 | 14 |
| Calhoun | 16 | 8 | 15 | 16 | -- | 12 | -- | 46 | *13 | *24 | 8 | *25 | *18 |
| Clinton | 9 | 21 | 5 | 8 | 19 | 44 | -- | 18 | 5 | 3 | 13 | *25 | 7 |
| Eaton | 14 | 16 | 10 | 7 | 10 | 42 | 14 | -- | 24 | 28 | 17 | 15 | 5 |
| Hillsdale | 18 | 12 | 7 | *19 | -- | *21 | -- | *43 | *13 | 12 | 9 | 10 | 12 |
| Ingham | 25 | 19 | 14 | 13 | 32 | *54 | *33 | -- | *16 | *13 | 14 | *25 | 6 |
| Ionia | 21 | 20 | 13 | 12 | 15 | 13 | *33 | *31 | 6 | 6 | 10 | 3 | *18 |
| Jackson | 19 | 13 | 29 | 18 | -- | 8 | *33 | *43 | 11 | *24 | 11 | 16 | 3 |
| St. Joseph | 29 | 2 | 12 | 37 | 21 | *39 | -- | -- | *33 | 33 | 6 | 14 | 9 |
| Shiawassee | 17 | 24 | 4 | 9 | 24 | *10 | 25 | *27 | *21 | 22 | 27 | 18 | *10 |
| **South Central (8)** | | | | | | | | | | | | | |
| Genesee | 30 | 25 | 22 | *21 | 27 | *25 | *18 | *53 | 32 | *38 | 24 | *25 | *30 |
| Lapeer | 12 | 15 | *30 | *19 | 13 | 9 | 24 | 13 | 10 | 11 | 32 | *25 | 15 |
| Lenawee | 7 | 1 | 1 | 4 | 35 | 16 | 16 | *51 | 9 | *17 | 12 | 21 | 2 |
| Livingston | 33 | 30 | 33 | *25 | -- | 43 | -- | -- | 28 | 26 | 41 | *25 | *18 |
| Macomb | 36 | 35 | 27 | 32 | 28 | *57 | -- | -- | 52 | *45 | 39 | 23 | *43 |
| Monroe | 11 | 14 | 3 | 6 | 29 | *19 | 8 | -- | 48 | 54 | 22 | *11 | *28 |
| Oakland | 38 | 39 | *37 | *40 | -- | *62 | -- | -- | *59 | *61 | 48 | *25 | *30 |
| St. Clair | 20 | 33 | 16 | 15 | 12 | 18 | -- | *21 | 29 | 32 | 42 | 17 | *40 |
| Washtenaw | 13 | 18 | 19 | 10 | -- | 6 | *28 | 17 | *16 | *17 | *15 | 20 | 1 |
| Wayne | 49 | 47 | 35 | 50 | -- | 75 | -- | -- | *79 | -- | *62 | -- | *67 |
| **Southeast (9)** | | | | | | | | | | | | | |

[1] Based on 1987 Census of Agriculture.
[2] Based on grain production.
[3] Based on production.
[4] Based on number of head.
[5] HPLA-Hens and Pullets of Laying Age
*Tied with another county.

## Cattle and Sheep: January 1, 1993

| District and County | All Cattle and Calves | All Cows that have Calved | Milk Cows | Beef Cows | All Sheep and Lambs |
|---|---|---|---|---|---|
| | | *Head* | | | *Head* |
| Alger | 1,900 | 600 | 400 | 200 | 1,500 |
| Baraga | 1,200 | 800 | 500 | 300 | – |
| Chippewa | 8,900 | 3,400 | 1,700 | 1,700 | 1,800 |
| Delta | 9,000 | 4,400 | 2,600 | 1,800 | 100 |
| Dickinson | 2,700 | 1,200 | 800 | 400 | – |
| Gogebic | 300 | 300 | 100 | 200 | – |
| Houghton | 2,100 | 1,000 | 600 | 400 | 400 |
| Iron | 1,800 | 1,100 | 200 | 900 | 500 |
| Keweenaw | – | – | – | – | – |
| Luce | 1,400 | 300 | – | 300 | – |
| Mackinac | 3,500 | 1,600 | 1,000 | 600 | 100 |
| Marquette | 1,700 | 1,000 | 500 | 500 | 200 |
| Menominee | 19,000 | 8,100 | 6,800 | 1,300 | 500 |
| Ontonagon | 3,600 | 1,400 | 600 | 800 | 300 |
| Schoolcraft | 1,900 | 800 | 200 | 600 | 100 |
| **Upper Peninsula (1)** | 59,000 | 26,000 | 16,000 | 10,000 | 5,500 |
| Antrim | 5,000 | 1,900 | 1,300 | 600 | 400 |
| Benzie | 1,700 | 400 | 100 | 300 | 100 |
| Charlevoix | 5,400 | 2,500 | 1,300 | 1,200 | 200 |
| Emmet | 5,500 | 3,100 | 1,100 | 2,000 | 200 |
| Grand Traverse | 5,500 | 2,000 | 1,000 | 1,000 | 200 |
| Kalkaska | 1,000 | 500 | 300 | 200 | 100 |
| Leelanau | 4,500 | 1,000 | 700 | 300 | 100 |
| Manistee | 2,500 | 1,300 | 200 | 1,100 | 200 |
| Missaukee | 24,500 | 10,100 | 9,100 | 1,000 | 400 |
| Wexford | 3,400 | 1,200 | 900 | 300 | 100 |
| **Northwest (2)** | 59,000 | 24,000 | 16,000 | 8,000 | 2,000 |
| Alcona | 7,300 | 3,100 | 1,000 | 2,100 | 1,200 |
| Alpena | 11,000 | 4,900 | 2,900 | 2,000 | 800 |
| Cheboygan | 5,700 | 3,100 | 1,600 | 1,500 | 400 |
| Crawford | 100 | – | – | – | 100 |
| Iosco | 9,800 | 3,600 | 1,700 | 1,900 | 200 |
| Montmorency | 3,300 | 1,500 | 1,000 | 500 | 400 |
| Ogemaw | 16,000 | 6,300 | 5,100 | 1,200 | 500 |
| Oscoda | 2,300 | 1,100 | 600 | 500 | 600 |
| Otsego | 3,200 | 800 | 600 | 200 | 100 |
| Presque Isle | 9,800 | 4,500 | 2,500 | 2,000 | 100 |
| Roscommon | 500 | 100 | – | 100 | 100 |
| **Northeast (3)** | 69,000 | 29,000 | 17,000 | 12,000 | 4,500 |
| Lake | 1,800 | 900 | 300 | 600 | 400 |
| Mason | 8,700 | 3,400 | 2,800 | 600 | 1,700 |
| Muskegon | 12,500 | 4,700 | 3,800 | 900 | 300 |
| Newaygo | 22,000 | 9,300 | 8,000 | 1,300 | 800 |
| Oceana | 13,000 | 4,200 | 3,100 | 1,100 | 300 |
| **West Central (4)** | 58,000 | 22,500 | 18,000 | 4,500 | 3,500 |
| Clare | 11,500 | 4,800 | 2,800 | 2,000 | 1,300 |
| Gladwin | 8,500 | 3,500 | 1,500 | 2,000 | 1,100 |
| Gratiot | 28,000 | 9,000 | 7,800 | 1,200 | 900 |

## Cattle and Sheep: January 1, 1993

| District and County | All Cattle and Calves | All Cows that have Calved | Milk Cows | Beef Cows | All Sheep and Lambs |
|---|---|---|---|---|---|
| | | *Head* | | | *Head* |
| Isabella | 33,000 | 13,900 | 10,600 | 3,300 | 1,700 |
| Mecosta | 19,300 | 7,900 | 5,800 | 2,100 | 1,900 |
| Midland | 7,200 | 1,800 | 700 | 1,100 | 200 |
| Montcalm | 27,000 | 11,000 | 9,200 | 1,800 | 900 |
| Osceola | 20,500 | 9,100 | 6,600 | 2,500 | 1,000 |
| **Central (5)** | 155,000 | 61,000 | 45,000 | 16,000 | 9,000 |
| Arenac | 8,200 | 3,100 | 2,700 | 400 | 200 |
| Bay | 5,300 | 2,000 | 1,500 | 500 | 200 |
| Huron | 87,000 | 18,700 | 17,500 | 1,200 | 500 |
| Saginaw | 15,000 | 5,100 | 4,200 | 900 | 1,900 |
| Sanilac | 72,000 | 27,300 | 25,500 | 1,800 | 700 |
| Tuscola | 22,500 | 8,300 | 6,600 | 1,700 | 1,500 |
| **East Central (6)** | 210,000 | 64,500 | 58,000 | 6,500 | 5,000 |
| Allegan | 47,500 | 18,000 | 15,000 | 3,000 | 2,800 |
| Berrien | 7,700 | 3,300 | 1,800 | 1,500 | 500 |
| Cass | 10,500 | 4,300 | 1,700 | 2,600 | 2,200 |
| Kalamazoo | 12,500 | 4,200 | 2,500 | 1,700 | 3,800 |
| Kent | 37,000 | 15,200 | 12,000 | 3,200 | 1,100 |
| Ottawa | 44,000 | 17,600 | 15,000 | 2,600 | 600 |
| Van Buren | 10,800 | 3,400 | 2,000 | 1,400 | 1,500 |
| **Southwest (7)** | 170,000 | 66,000 | 50,000 | 16,000 | 12,500 |
| Barry | 23,500 | 11,200 | 7,600 | 3,600 | 2,400 |
| Branch | 22,000 | 6,200 | 4,100 | 2,100 | 2,100 |
| Calhoun | 27,000 | 9,500 | 5,700 | 3,800 | 1,800 |
| Clinton | 42,000 | 17,300 | 15,500 | 1,800 | 2,900 |
| Eaton | 21,000 | 7,900 | 4,800 | 3,100 | 3,500 |
| Hillsdale | 27,000 | 10,300 | 8,300 | 2,000 | 2,300 |
| Ingham | 26,000 | 10,500 | 8,000 | 2,500 | 3,200 |
| Ionia | 38,000 | 14,600 | 12,600 | 2,000 | 1,800 |
| Jackson | 28,500 | 9,500 | 5,700 | 3,800 | 7,000 |
| St. Joseph | 13,000 | 4,700 | 3,200 | 1,500 | 2,600 |
| Shiawassee | 22,000 | 8,300 | 6,500 | 1,800 | 2,400 |
| **South Central (8)** | 290,000 | 110,000 | 82,000 | 28,000 | 32,000 |
| Genesee | 14,000 | 3,900 | 2,700 | 1,200 | 1,000 |
| Lapeer | 29,000 | 11,200 | 8,700 | 2,500 | 2,000 |
| Lenawee | 30,000 | 8,800 | 7,000 | 1,800 | 8,800 |
| Livingston | 18,500 | 6,700 | 5,200 | 1,500 | 1,800 |
| Macomb | 6,500 | 2,300 | 1,700 | 600 | 500 |
| Monroe | 8,000 | 1,500 | 1,200 | 300 | 1,200 |
| Oakland | 4,500 | 2,300 | 800 | 1,500 | 1,000 |
| St. Clair | 18,000 | 6,100 | 3,700 | 2,400 | 600 |
| Washtenaw | 26,000 | 9,000 | 7,000 | 2,000 | 17,000 |
| Wayne | 500 | 200 | – | 200 | 100 |
| **Southeast (9)** | 155,000 | 52,000 | 38,000 | 14,000 | 34,000 |
| **State** | 1,225,000 | 455,000 | 340,000 | 115,000 | 108,000 |

Note: Cattle estimates are not published for counties with less than 100 cattle.
Sheep estimates are not published for counties with less than 50 sheep.

## Cattle And Sheep: January 1, 1992

| District and County | All Cattle and Calves | All Cows that have Calved | Milk Cows | Beef Cows | All Sheep and Lambs |
|---|---|---|---|---|---|
| | | *Head* | | | *Head* |
| Alger | 1,900 | 600 | 400 | 200 | 1,400 |
| Baraga | 1,200 | 800 | 500 | 300 | – |
| Chippewa | 8,700 | 3,400 | 1,800 | 1,600 | 1,700 |
| Delta | 9,100 | 4,300 | 2,500 | 1,800 | 100 |
| Dickinson | 2,800 | 1,200 | 800 | 400 | – |
| Gogebic | 400 | 300 | 100 | 200 | – |
| Houghton | 2,100 | 1,000 | 600 | 400 | 350 |
| Iron | 1,800 | 1,000 | 200 | 800 | 450 |
| Keweenaw | – | – | – | – | – |
| Luce | 1,500 | 300 | – | 300 | – |
| Mackinac | 3,400 | 1,500 | 1,000 | 500 | 100 |
| Marquette | 1,700 | 900 | 500 | 400 | 150 |
| Menominee | 19,000 | 8,100 | 6,800 | 1,300 | 450 |
| Ontonagon | 3,700 | 1,400 | 600 | 800 | 300 |
| Schoolcraft | 1,700 | 700 | 200 | 500 | 100 |
| **Upper Peninsula (1)** | 59,000 | 25,500 | 16,000 | 9,500 | 5,100 |
| Antrim | 5,000 | 1,800 | 1,300 | 500 | 500 |
| Benzie | 1,700 | 400 | 100 | 300 | 100 |
| Charlevoix | 5,400 | 2,400 | 1,300 | 1,100 | 200 |
| Emmet | 5,600 | 2,800 | 1,000 | 1,800 | 200 |
| Grand Traverse | 5,500 | 1,800 | 900 | 900 | 200 |
| Kalkaska | 1,200 | 500 | 300 | 200 | 100 |
| Leelanau | 4,500 | 1,000 | 700 | 300 | 100 |
| Manistee | 2,700 | 1,300 | 200 | 1,100 | 200 |
| Missaukee | 24,000 | 10,200 | 9,200 | 1,000 | 500 |
| Wexford | 3,400 | 1,300 | 1,000 | 300 | 100 |
| **Northwest (2)** | 59,000 | 23,500 | 16,000 | 7,500 | 2,200 |
| Alcona | 7,300 | 3,100 | 1,000 | 2,100 | 1,000 |
| Alpena | 11,000 | 4,600 | 2,800 | 1,800 | 800 |
| Cheboygan | 6,000 | 3,100 | 1,700 | 1,400 | 350 |
| Crawford | 100 | – | – | – | 50 |
| Iosco | 9,500 | 3,200 | 1,600 | 1,600 | 200 |
| Montmorency | 3,400 | 1,400 | 1,000 | 400 | 400 |
| Ogemaw | 16,000 | 6,400 | 5,200 | 1,200 | 400 |
| Oscoda | 2,300 | 1,000 | 600 | 400 | 500 |
| Otsego | 3,100 | 800 | 600 | 200 | 100 |
| Presque Isle | 9,800 | 4,300 | 2,500 | 1,800 | 100 |
| Roscommon | 500 | 100 | – | 100 | 100 |
| **Northeast (3)** | 69,000 | 28,000 | 17,000 | 11,000 | 4,000 |
| Lake | 1,900 | 800 | 300 | 500 | 400 |
| Mason | 8,600 | 3,300 | 2,800 | 500 | 1,600 |
| Muskegon | 12,000 | 4,100 | 3,400 | 700 | 300 |
| Newaygo | 22,000 | 9,100 | 8,000 | 1,100 | 750 |
| Oceana | 13,500 | 4,200 | 3,000 | 1,200 | 250 |
| **West Central (4)** | 58,000 | 21,500 | 17,500 | 4,000 | 3,300 |
| Clare | 10,500 | 4,500 | 2,700 | 1,800 | 1,200 |
| Gladwin | 8,500 | 3,500 | 1,600 | 1,900 | 1,000 |
| Gratiot | 28,000 | 8,800 | 7,700 | 1,100 | 900 |

## Cattle And Sheep: January 1, 1992

| District and County | All Cattle and Calves | All Cows that have Calved | Milk Cows | Beef Cows | All Sheep and Lambs |
|---|---|---|---|---|---|
| | | *Head* | | | *Head* |
| Isabella | 31,000 | 13,400 | 10,400 | 3,000 | 1,600 |
| Mecosta | 19,200 | 7,700 | 5,800 | 1,900 | 1,900 |
| Midland | 6,800 | 1,700 | 700 | 1,000 | 200 |
| Montcalm | 26,500 | 10,400 | 8,900 | 1,500 | 900 |
| Osceola | 19,500 | 9,000 | 6,700 | 2,300 | 900 |
| **Central (5)** | 150,000 | 59,000 | 44,500 | 14,500 | 8,600 |
| Arenac | 7,500 | 2,900 | 2,600 | 300 | 150 |
| Bay | 5,000 | 1,900 | 1,500 | 400 | 200 |
| Huron | 80,000 | 18,300 | 17,200 | 1,100 | 550 |
| Saginaw | 14,500 | 5,000 | 4,200 | 800 | 1,800 |
| Sanilac | 70,000 | 26,700 | 25,000 | 1,700 | 700 |
| Tuscola | 21,000 | 8,200 | 6,500 | 1,700 | 1,400 |
| **East Central (6)** | 198,000 | 63,000 | 57,000 | 6,000 | 4,800 |
| Allegan | 46,000 | 17,000 | 14,500 | 2,500 | 2,700 |
| Berrien | 7,500 | 3,200 | 1,700 | 1,500 | 400 |
| Cass | 10,000 | 4,000 | 1,600 | 2,400 | 2,200 |
| Kalamazoo | 13,000 | 4,300 | 2,600 | 1,700 | 3,300 |
| Kent | 37,000 | 15,200 | 12,000 | 3,200 | 1,000 |
| Ottawa | 43,500 | 16,400 | 14,000 | 2,400 | 600 |
| Van Buren | 11,000 | 3,400 | 2,100 | 1,300 | 1,300 |
| **Southwest (7)** | 168,000 | 63,500 | 48,500 | 15,000 | 11,500 |
| Barry | 23,000 | 11,100 | 7,700 | 3,400 | 2,300 |
| Branch | 22,000 | 6,100 | 4,200 | 1,900 | 1,900 |
| Calhoun | 27,000 | 9,300 | 5,700 | 3,600 | 1,600 |
| Clinton | 40,000 | 16,800 | 15,300 | 1,500 | 2,700 |
| Eaton | 21,000 | 7,800 | 4,800 | 3,000 | 3,300 |
| Hillsdale | 27,000 | 10,000 | 8,000 | 2,000 | 2,100 |
| Ingham | 26,000 | 10,600 | 8,300 | 2,300 | 3,100 |
| Ionia | 37,000 | 14,600 | 12,800 | 1,800 | 1,700 |
| Jackson | 28,000 | 9,500 | 5,900 | 3,600 | 6,900 |
| St. Joseph | 12,000 | 4,400 | 3,100 | 1,300 | 2,500 |
| Shiawassee | 22,000 | 8,300 | 6,700 | 1,600 | 1,900 |
| **South Central (8)** | 285,000 | 108,500 | 82,500 | 26,000 | 30,000 |
| Genesee | 13,500 | 3,500 | 2,500 | 1,000 | 900 |
| Lapeer | 29,500 | 11,400 | 9,000 | 2,400 | 2,000 |
| Lenawee | 30,000 | 8,700 | 7,200 | 1,500 | 8,900 |
| Livingston | 18,500 | 6,800 | 5,400 | 1,400 | 1,900 |
| Macomb | 6,300 | 2,300 | 1,800 | 500 | 500 |
| Monroe | 8,200 | 1,600 | 1,300 | 300 | 1,100 |
| Oakland | 4,500 | 2,300 | 800 | 1,500 | 1,000 |
| St. Clair | 17,000 | 5,900 | 3,900 | 2,000 | 600 |
| Washtenaw | 26,000 | 8,800 | 7,100 | 1,700 | 16,500 |
| Wayne | 500 | 200 | – | 200 | 100 |
| **Southeast (9)** | 154,000 | 51,500 | 39,000 | 12,500 | 33,500 |
| **State** | 1,200,000 | 444,000 | 338,000 | 106,000 | 103,000 |

Note: Cattle estimates are not published for counties with less than 100 cattle.
Sheep estimates are not published for counties with less than 50 sheep.

# Milk: Head, Production Per Cow, Total Production, 1991-92

| District and County | 1992 | | | 1991 | | |
|---|---|---|---|---|---|---|
| | Milk Cows | Milk Per Cow | Total Milk Produced | Milk Cows | Milk Per Cow | Total Milk Produced |
| | *Head* | *Pounds* | *1,000 Pounds* | *Head* | *Pounds* | *1,000 Pounds* |
| Alger | 400 | 14,750 | 5,900 | 400 | 14,750 | 5,900 |
| Baraga | 500 | 16,000 | 8,000 | 400 | 15,750 | 6,300 |
| Chippewa | 1,800 | 13,890 | 25,000 | 1,800 | 13,830 | 24,900 |
| Delta | 2,500 | 13,920 | 34,800 | 2,500 | 13,840 | 34,600 |
| Dickinson | 800 | 16,130 | 12,900 | 800 | 16,000 | 12,800 |
| Gogebic | 100 | 15,000 | 1,500 | 100 | 15,000 | 1,500 |
| Houghton | 600 | 14,830 | 8,900 | 600 | 14,830 | 8,900 |
| Iron | 200 | 16,000 | 3,200 | 200 | 16,000 | 3,200 |
| Keweenaw | -- | -- | -- | -- | -- | -- |
| Luce | -- | -- | -- | -- | -- | -- |
| Mackinac | 1,000 | 15,500 | 15,600 | 1,000 | 15,400 | 15,400 |
| Marquette | 500 | 14,400 | 7,200 | 500 | 14,400 | 7,200 |
| Menominee | 6,800 | 13,930 | 94,700 | 6,900 | 13,910 | 96,000 |
| Ontonagon | 600 | 15,330 | 9,200 | 600 | 15,330 | 9,200 |
| Schoolcraft | 200 | 15,500 | 3,100 | 200 | 15,500 | 3,100 |
| **Upper Peninsula (1)** | 16,000 | 14,375 | 230,000 | 16,000 | 14,313 | 229,000 |
| Antrim | 1,300 | 15,770 | 20,500 | 1,300 | 14,850 | 19,300 |
| Benzie | 100 | 15,000 | 1,500 | -- | -- | -- |
| Charlevoix | 1,300 | 15,380 | 20,000 | 1,300 | 14,460 | 18,800 |
| Emmet | 1,100 | 14,910 | 16,400 | 1,000 | 14,500 | 14,500 |
| Grand Traverse | 900 | 16,780 | 15,100 | 900 | 15,780 | 14,200 |
| Kalkaska | 300 | 15,000 | 4,500 | 300 | 14,000 | 4,200 |
| Leelanau | 700 | 16,430 | 11,500 | 800 | 15,250 | 12,200 |
| Manistee | 200 | 16,500 | 3,300 | 200 | 15,500 | 3,100 |
| Missaukee | 9,200 | 17,140 | 157,700 | 9,100 | 16,390 | 149,100 |
| Wexford | 900 | 16,100 | 14,500 | 1,000 | 14,100 | 14,100 |
| **Northwest (2)** | 16,000 | 16,563 | 265,000 | 16,000 | 15,688 | 251,000 |
| Alcona | 1,000 | 15,100 | 15,100 | 900 | 16,220 | 14,600 |
| Alpena | 2,900 | 16,210 | 47,000 | 2,800 | 15,750 | 44,100 |
| Cheboygan | 1,600 | 17,380 | 27,800 | 1,700 | 15,820 | 26,900 |
| Crawford | -- | -- | -- | -- | -- | -- |
| Iosco | 1,700 | 16,470 | 28,000 | 1,600 | 16,250 | 26,000 |
| Montmorency | 1,000 | 15,000 | 15,000 | 1,000 | 14,500 | 14,500 |
| Ogemaw | 5,100 | 16,350 | 83,400 | 5,000 | 16,140 | 80,700 |
| Oscoda | 600 | 18,830 | 11,300 | 800 | 15,500 | 12,400 |
| Otsego | 600 | 16,300 | 9,800 | 700 | 14,860 | 10,400 |
| Presque Isle | 2,500 | 15,040 | 37,600 | 2,500 | 14,560 | 36,400 |
| Roscommon | -- | -- | -- | -- | -- | -- |
| **Northeast (3)** | 17,000 | 16,176 | 275,000 | 17,000 | 15,647 | 266,000 |
| Lake | 300 | 16,670 | 5,000 | 400 | 15,500 | 6,200 |
| Mason | 2,800 | 17,500 | 49,000 | 3,000 | 15,600 | 46,800 |
| Muskegon | 3,800 | 15,840 | 60,200 | 3,700 | 15,540 | 57,500 |
| Newaygo | 8,000 | 16,010 | 128,000 | 7,900 | 15,490 | 122,400 |
| Oceana | 3,100 | 16,390 | 50,800 | 3,000 | 15,700 | 47,100 |
| **West Central (4)** | 18,000 | 16,278 | 293,000 | 18,000 | 15,556 | 280,000 |
| Clare | 2,800 | 15,610 | 43,700 | 2,600 | 15,770 | 41,000 |
| Gladwin | 1,600 | 16,560 | 26,500 | 1,700 | 15,710 | 26,700 |
| Gratiot | 7,800 | 17,350 | 135,300 | 7,900 | 16,080 | 127,000 |

## Milk: Head, Production Per Cow, Total Production, 1991-92

| District and County | 1992 | | | 1991 | | |
|---|---|---|---|---|---|---|
| | Milk Cows | Milk Per Cow | Total Milk Produced | Milk Cows | Milk Per Cow | Total Milk Produced |
| | *Head* | *Pounds* | *1,000 Pounds* | *Head* | *Pounds* | *1,000 Pounds* |
| Isabella | 10,500 | 16,190 | 170,000 | 10,300 | 15,340 | 158,000 |
| Mecosta | 5,800 | 16,900 | 98,000 | 5,900 | 15,590 | 92,000 |
| Midland | 700 | 16,430 | 11,500 | 600 | 16,000 | 9,600 |
| Montcalm | 9,100 | 15,490 | 141,000 | 8,800 | 14,850 | 130,700 |
| Osceola | 6,700 | 16,420 | 110,000 | 6,700 | 15,820 | 106,000 |
| **Central (5)** | 45,000 | 16,356 | 736,000 | 44,500 | 15,528 | 691,000 |
| Arenac | 2,700 | 14,150 | 38,200 | 2,600 | 14,620 | 38,000 |
| Bay | 1,500 | 16,070 | 24,100 | 1,500 | 15,930 | 23,900 |
| Huron | 17,300 | 16,180 | 280,000 | 17,200 | 16,170 | 278,200 |
| Saginaw | 4,200 | 15,380 | 64,600 | 4,200 | 15,290 | 64,200 |
| Sanilac | 25,300 | 16,420 | 415,400 | 25,400 | 16,250 | 412,700 |
| Tuscola | 6,500 | 16,110 | 104,700 | 6,600 | 15,760 | 104,000 |
| **East Central (6)** | 57,500 | 16,122 | 927,000 | 57,500 | 16,017 | 921,000 |
| Allegan | 14,700 | 15,780 | 232,000 | 14,600 | 15,510 | 226,500 |
| Berrien | 1,700 | 15,880 | 27,000 | 1,700 | 15,470 | 26,300 |
| Cass | 1,700 | 16,760 | 28,000 | 1,800 | 15,440 | 27,800 |
| Kalamazoo | 2,500 | 16,960 | 42,400 | 2,700 | 15,330 | 41,400 |
| Kent | 12,000 | 16,920 | 203,000 | 12,400 | 16,270 | 201,700 |
| Ottawa | 14,400 | 15,710 | 232,000 | 13,800 | 16,120 | 222,400 |
| Van Buren | 2,000 | 15,300 | 30,600 | 2,000 | 14,950 | 29,900 |
| **Southwest (7)** | 49,000 | 16,224 | 795,000 | 49,000 | 15,837 | 776,000 |
| Barry | 7,600 | 15,680 | 119,200 | 7,600 | 15,130 | 115,000 |
| Branch | 4,100 | 16,680 | 68,400 | 4,400 | 15,000 | 66,000 |
| Calhoun | 5,700 | 16,000 | 91,200 | 5,800 | 15,170 | 88,000 |
| Clinton | 15,400 | 16,740 | 257,800 | 15,400 | 15,910 | 245,000 |
| Eaton | 4,800 | 14,900 | 71,500 | 4,900 | 14,080 | 69,000 |
| Hillsdale | 8,100 | 16,050 | 130,000 | 7,800 | 15,130 | 118,000 |
| Ingham | 8,100 | 16,510 | 133,700 | 8,400 | 15,360 | 129,000 |
| Ionia | 12,700 | 15,590 | 198,000 | 12,900 | 14,810 | 191,000 |
| Jackson | 5,800 | 15,900 | 92,200 | 6,200 | 14,360 | 89,000 |
| St. Joseph | 3,100 | 15,480 | 48,000 | 3,500 | 14,290 | 50,000 |
| Shiawassee | 6,600 | 15,150 | 100,000 | 7,100 | 14,650 | 104,000 |
| **South Central (8)** | 82,000 | 15,976 | 1,310,000 | 84,000 | 15,048 | 1,264,000 |
| Genesee | 2,600 | 14,120 | 36,700 | 2,500 | 15,000 | 37,500 |
| Lapeer | 8,900 | 14,970 | 133,200 | 9,000 | 15,110 | 136,000 |
| Lenawee | 7,100 | 15,450 | 109,700 | 7,200 | 15,560 | 112,000 |
| Livingston | 5,300 | 14,420 | 76,400 | 5,400 | 14,440 | 78,000 |
| Macomb | 1,700 | 14,120 | 24,000 | 1,700 | 14,410 | 24,500 |
| Monroe | 1,300 | 14,690 | 19,100 | 1,300 | 15,000 | 19,500 |
| Oakland | 800 | 14,130 | 11,300 | 800 | 14,280 | 11,500 |
| St. Clair | 3,800 | 13,920 | 52,900 | 3,900 | 13,850 | 54,000 |
| Washtenaw | 7,000 | 14,690 | 102,700 | 7,200 | 14,580 | 105,000 |
| Wayne | -- | -- | -- | -- | -- | -- |
| **Southeast (9)** | 38,500 | 14,701 | 566,000 | 39,000 | 14,821 | 578,000 |
| **State** | 339,000 | 15,920 | 5,397,000 | 341,000 | 15,413 | 5,256,000 |

Note: Cattle estimates are not published for counties with less than 100 cattle.

## Hogs and Pigs, Chickens: December 1, 1991-92

| District and County | All Hogs and Pigs | | Sows Farrowed | | Hens and Pullets of Laying Age | |
|---|---|---|---|---|---|---|
| | 1992 | 1991 | 1992 | 1991 | 1992 | 1991 |
| | *Head* | | | | *Head* | |
| Alger | – | – | – | – | – | – |
| Baraga | – | – | – | – | – | – |
| Chippewa | 200 | 200 | – | – | – | – |
| Delta | 1,300 | 1,500 | 300 | 400 | – | – |
| Dickinson | 400 | 400 | 100 | 100 | – | – |
| Gogebic | – | – | – | – | – | – |
| Houghton | – | – | – | – | 7,500 | 7,500 |
| Iron | 100 | 100 | – | – | – | – |
| Keweenaw | – | – | – | – | – | – |
| Luce | 100 | 100 | – | – | – | – |
| Mackinac | 100 | – | – | – | – | – |
| Marquette | 300 | 200 | – | – | – | – |
| Menominee | 500 | 500 | 150 | 150 | 1,000 | 1,000 |
| Ontonagon | – | – | – | – | – | – |
| Schoolcraft | 400 | 400 | 250 | 250 | – | – |
| **Upper Peninsula (1)** | 3,500 | 3,500 | 1,000 | 1,000 | 10,000 | 10,000 |
| Antrim | 1,400 | 1,400 | 300 | 300 | – | – |
| Benzie | 900 | 900 | 200 | 200 | – | – |
| Charlevoix | 700 | 1,100 | 200 | 250 | 1,500 | 1,500 |
| Emmet | 500 | 500 | 100 | 100 | – | – |
| Grand Traverse | 4,600 | 4,300 | 900 | 850 | – | – |
| Kalkaska | 1,100 | 1,200 | 250 | 250 | – | – |
| Leelanau | 700 | 700 | 150 | 150 | 1,000 | 1,000 |
| Manistee | 400 | 400 | 100 | 100 | – | – |
| Missaukee | 3,400 | 3,200 | 700 | 700 | – | – |
| Wexford | 300 | 300 | 100 | 100 | – | – |
| **Northwest (2)** | 14,000 | 14,000 | 3,000 | 3,000 | 3,000 | 4,000 |
| Alcona | 100 | 100 | – | – | – | 1,000 |
| Alpena | 600 | 600 | 150 | 150 | – | 1,000 |
| Cheboygan | 600 | 700 | 100 | 150 | 1,000 | – |
| Crawford | – | – | – | – | – | – |
| Iosco | 1,700 | 1,700 | 400 | 400 | – | – |
| Montmorency | 300 | 200 | – | – | – | – |
| Ogemaw | 1,400 | 1,300 | 300 | 250 | – | – |
| Oscoda | 200 | 200 | – | – | – | – |
| Otsego | 500 | 600 | 100 | 100 | 1,000 | – |
| Presque Isle | 2,000 | 2,000 | 350 | 350 | 1,000 | 1,000 |
| Roscommon | 100 | 100 | – | – | – | – |
| **Northeast (3)** | 7,500 | 7,500 | 1,500 | 1,500 | 4,000 | 5,000 |
| Lake | 300 | 300 | 100 | 100 | 1,000 | 1,000 |
| Mason | 4,100 | 4,200 | 1,000 | 900 | 1,000 | 1,000 |
| Muskegon | 6,400 | 7,000 | 1,700 | 1,500 | 1,000 | 1,000 |
| Newaygo | 4,600 | 4,000 | 800 | 800 | 84,000 | 84,000 |
| Oceana | 8,600 | 9,000 | 2,400 | 2,200 | 33,000 | 33,000 |
| **West Central (4)** | 24,000 | 24,500 | 6,000 | 5,500 | 120,000 | 120,000 |
| Clare | 9,300 | 8,300 | 1,800 | 1,700 | – | – |
| Gladwin | 3,000 | 2,700 | 700 | 600 | 1,000 | 1,000 |
| Gratiot | 21,300 | 23,000 | 4,100 | 3,900 | 50,000 | 50,000 |

# Hogs and Pigs, Chickens: December 1, 1991-92

| District and County | All Hogs and Pigs | | Sows Farrowed | | Hens and Pullets of Laying Age | |
|---|---|---|---|---|---|---|
| | 1992 | 1991 | 1992 | 1991 | 1992 | 1991 |
| | *Head* | | | | *Head* | |
| Isabella | 17,500 | 18,000 | 3,600 | 3,400 | 175,000 | 170,000 |
| Mecosta | 7,300 | 7,000 | 1,600 | 1,500 | 1,000 | 1,000 |
| Midland | 6,200 | 6,000 | 1,500 | 1,400 | 1,000 | 1,000 |
| Montcalm | 12,500 | 10,200 | 2,500 | 2,350 | 1,000 | 1,000 |
| Osceola | 2,900 | 3,300 | 700 | 650 | 1,000 | 1,000 |
| **Central (5)** | 80,000 | 78,500 | 16,500 | 15,500 | 230,000 | 225,000 |
| Arenac | 4,800 | 5,000 | 1,000 | 900 | – | 1,000 |
| Bay | 1,200 | 1,500 | 300 | 300 | – | 1,000 |
| Huron | 45,500 | 45,000 | 8,300 | 7,800 | 840,000 | 860,000 |
| Saginaw | 9,500 | 9,000 | 1,500 | 1,400 | 1,000 | 2,000 |
| Sanilac | 14,000 | 14,500 | 2,900 | 2,700 | 1,000 | 1,000 |
| Tuscola | 14,000 | 14,000 | 3,000 | 2,900 | 163,000 | 175,000 |
| **East Central (6)** | 89,000 | 89,000 | 17,000 | 16,000 | 1,005,000 | 1,040,000 |
| Allegan | 100,000 | 105,000 | 21,600 | 21,000 | 925,000 | 925,000 |
| Berrien | 22,000 | 23,500 | 5,000 | 4,800 | 1,000 | 1,000 |
| Cass | 235,000 | 225,000 | 50,000 | 47,000 | 3,000 | 3,000 |
| Kalamazoo | 26,000 | 27,000 | 5,300 | 5,200 | 340,000 | 297,000 |
| Kent | 16,000 | 16,500 | 4,200 | 4,000 | 1,000 | 1,000 |
| Ottawa | 86,000 | 90,000 | 17,500 | 17,000 | 1,330,000 | 1,245,000 |
| Van Buren | 65,000 | 68,000 | 13,400 | 13,000 | 95,000 | 93,000 |
| **Southwest (7)** | 550,000 | 555,000 | 117,000 | 112,000 | 2,695,000 | 2,565,000 |
| Barry | 19,000 | 19,000 | 3,600 | 3,500 | 1,000 | 1,000 |
| Branch | 69,000 | 68,000 | 14,500 | 14,000 | 1,000 | 1,000 |
| Calhoun | 41,000 | 40,000 | 8,300 | 8,000 | 1,000 | 1,000 |
| Clinton | 32,000 | 32,000 | 6,200 | 6,000 | 1,000 | 1,000 |
| Eaton | 25,000 | 25,000 | 5,300 | 5,000 | 18,000 | 17,000 |
| Hillsdale | 40,500 | 45,500 | 8,100 | 8,000 | 75,000 | 64,000 |
| Ingham | 29,000 | 28,000 | 6,000 | 5,500 | 1,000 | 1,000 |
| Ionia | 39,000 | 38,000 | 7,300 | 7,000 | 905,000 | 1,170,000 |
| Jackson | 36,000 | 51,000 | 7,000 | 9,000 | 17,000 | 16,000 |
| St. Joseph | 56,000 | 55,000 | 12,500 | 12,000 | 20,000 | 20,000 |
| Shiawassee | 13,500 | 13,500 | 3,200 | 3,000 | 10,000 | 3,000 |
| **South Central (8)** | 400,000 | 415,000 | 82,000 | 81,000 | 1,050,000 | 1,295,000 |
| Genesee | 14,500 | 15,000 | 3,000 | 2,900 | 1,000 | 1,000 |
| Lapeer | 7,500 | 7,500 | 1,800 | 1,700 | 1,000 | 1,000 |
| Lenawee | 33,500 | 33,500 | 7,100 | 6,800 | 6,000 | 6,000 |
| Livingston | 4,000 | 4,000 | 800 | 800 | 1,000 | 1,000 |
| Macomb | 4,500 | 4,500 | 1,000 | 900 | 2,000 | 2,000 |
| Monroe | 16,500 | 17,000 | 3,500 | 3,200 | 50,000 | 53,000 |
| Oakland | 1,500 | 1,500 | 300 | 300 | 1,000 | 1,000 |
| St. Clair | 3,600 | 3,600 | 900 | 900 | 14,000 | 64,000 |
| Washtenaw | 26,000 | 26,000 | 5,500 | 4,900 | 7,000 | 7,000 |
| Wayne | 400 | 400 | 100 | 100 | – | – |
| **Southeast (9)** | 112,000 | 113,000 | 24,000 | 22,500 | 83,000 | 136,000 |
| **State** | 1,280,000 | 1,300,000 | 268,000 | 258,000 | 5,200,000 | 5,400,000 |

Note: Hog and pig estimates are not published for counties with less than 100 hogs.

Hens and pullets of laying age estimates are not published for counties with less than 1,000 head.

## Corn: Acreage, Yield, Production, 1992

| District and County | Planted for all Purposes | Grain | | | Silage | | |
|---|---|---|---|---|---|---|---|
| | | Harvested | Yield | Production | Harvested | Yield | Production |
| | *Acres* | *Acres* | *Bushels* | | *Acres* | | *Tons* |
| Alger | – | – | – | – | – | – | – |
| Baraga | – | – | – | – | – | – | – |
| Chippewa | – | – | – | – | – | – | – |
| Delta | 3,900 | 800 | 42.5 | 34,000 | 2,000 | 13.0 | 26,000 |
| Dickinson | 1,500 | 400 | 65.0 | 26,000 | 1,000 | 6.2 | 6,200 |
| Gogebic | – | – | – | – | – | – | – |
| Houghton | – | – | – | – | – | – | – |
| Iron | – | – | – | – | – | – | – |
| Keweenaw | – | – | – | – | – | – | – |
| Luce | – | – | – | – | – | – | – |
| Mackinac | – | – | – | – | – | – | – |
| Marquette | 700 | 60 | 50.0 | 3,000 | 310 | 6.5 | 2,000 |
| Menominee | 14,300 | 3,500 | 58.6 | 205,000 | 9,300 | 8.6 | 80,000 |
| Ontonagon | – | – | – | – | – | – | – |
| Schoolcraft | 500 | 90 | 50.0 | 4,500 | 160 | 9.4 | 1,500 |
| **Upper Peninsula (1)** | 23,000 | 5,000 | 56.0 | 280,000 | 14,000 | 8.9 | 125,000 |
| Antrim | 4,500 | 2,000 | 47.0 | 94,000 | 2,000 | 8.5 | 17,000 |
| Benzie | 1,300 | 200 | 40.0 | 8,000 | 1,000 | 5.5 | 5,500 |
| Charlevoix | 3,800 | 1,100 | 50.0 | 55,000 | 2,200 | 8.6 | 19,000 |
| Emmet | 2,200 | 500 | 42.0 | 21,000 | 1,500 | 6.7 | 10,000 |
| Grand Traverse | 7,100 | 4,600 | 68.5 | 315,000 | 1,500 | 7.3 | 11,000 |
| Kalkaska | 1,700 | 800 | 56.3 | 45,000 | 600 | 5.8 | 3,500 |
| Leelanau | 3,800 | 2,500 | 54.0 | 135,000 | 1,100 | 6.4 | 7,000 |
| Manistee | 2,000 | 300 | 53.3 | 16,000 | 1,000 | 5.0 | 5,000 |
| Missaukee | 13,400 | 2,600 | 67.3 | 175,000 | 9,900 | 8.1 | 80,000 |
| Wexford | 2,200 | 400 | 40.0 | 16,000 | 1,200 | 5.8 | 7,000 |
| **Northwest (2)** | 42,000 | 15,000 | 58.7 | 880,000 | 22,000 | 7.5 | 165,000 |
| Alcona | 2,500 | 300 | 60.0 | 18,000 | 1,000 | 8.0 | 8,000 |
| Alpena | 8,200 | 2,200 | 50.9 | 112,000 | 4,000 | 5.0 | 20,000 |
| Cheboygan | 1,500 | 200 | 50.0 | 10,000 | 1,100 | 6.5 | 7,200 |
| Crawford | – | – | – | – | – | – | – |
| Iosco | 8,100 | 4,000 | 82.5 | 330,000 | 2,800 | 8.9 | 25,000 |
| Montmorency | 2,800 | 1,300 | 42.3 | 55,000 | 1,100 | 6.4 | 7,000 |
| Ogemaw | 11,000 | 6,700 | 81.3 | 545,000 | 3,500 | 8.3 | 29,000 |
| Oscoda | 750 | 200 | 80.0 | 16,000 | 450 | 8.9 | 4,000 |
| Otsego | 1,500 | 100 | 40.0 | 4,000 | 1,100 | 6.8 | 7,500 |
| Presque Isle | 3,600 | 1,000 | 40.0 | 40,000 | 1,900 | 6.3 | 12,000 |
| Roscommon | – | – | – | – | – | – | – |
| **Northeast (3)** | 40,000 | 16,000 | 70.6 | 1,130,000 | 17,000 | 7.1 | 120,000 |
| Lake | 1,000 | 300 | 50.0 | 15,000 | 300 | 6.7 | 2,000 |
| Mason | 13,000 | 8,800 | 68.2 | 600,000 | 3,400 | 8.8 | 30,000 |
| Muskegon | 23,000 | 17,200 | 59.3 | 1,020,000 | 4,200 | 7.4 | 31,000 |
| Newaygo | 28,000 | 16,400 | 60.4 | 990,000 | 9,100 | 7.3 | 66,000 |
| Oceana | 10,000 | 6,300 | 70.6 | 445,000 | 3,000 | 7.0 | 21,000 |
| **West Central (4)** | 75,000 | 49,000 | 62.7 | 3,070,000 | 20,000 | 7.5 | 150,000 |
| Clare | 6,000 | 2,100 | 52.4 | 110,000 | 3,100 | 9.7 | 30,000 |
| Gladwin | 9,000 | 6,600 | 98.5 | 650,000 | 2,000 | 9.5 | 19,000 |
| Gratiot | 83,000 | 73,000 | 117.8 | 8,600,000 | 8,400 | 11.9 | 100,000 |

# Corn: Acreage, Yield, Production, 1992

| District and County | Planted for all Purposes | Grain | | | Silage | | |
|---|---|---|---|---|---|---|---|
| | | Harvested | Yield | Production | Harvested | Yield | Production |
| | *Acres* | *Acres* | | *Bushels* | *Acres* | | *Tons* |
| Isabella | 55,000 | 42,000 | 65.7 | 2,760,000 | 12,000 | 5.8 | 70,000 |
| Mecosta | 18,000 | 12,000 | 50.0 | 600,000 | 5,100 | 5.1 | 26,000 |
| Midland | 22,000 | 20,600 | 99.0 | 2,040,000 | 1,000 | 12.0 | 12,000 |
| Montcalm | 62,000 | 50,200 | 82.9 | 4,160,000 | 9,400 | 9.6 | 90,000 |
| Osceola | 10,000 | 3,500 | 65.7 | 230,000 | 6,000 | 5.5 | 33,000 |
| **Central (5)** | 265,000 | 210,000 | 91.2 | 19,150,000 | 47,000 | 8.1 | 380,000 |
| Arenac | 19,000 | 14,000 | 76.4 | 1,070,000 | 3,000 | 12.3 | 37,000 |
| Bay | 48,000 | 44,000 | 108.2 | 4,760,000 | 2,000 | 14.0 | 28,000 |
| Huron | 156,000 | 117,000 | 94.9 | 11,100,000 | 35,000 | 12.8 | 447,000 |
| Saginaw | 95,000 | 89,000 | 111.5 | 9,920,000 | 4,000 | 13.0 | 52,000 |
| Sanilac | 120,000 | 96,000 | 90.0 | 8,640,000 | 21,000 | 12.4 | 260,000 |
| Tuscola | 92,000 | 85,000 | 109.5 | 9,310,000 | 5,000 | 11.2 | 56,000 |
| **East Central (6)** | 530,000 | 445,000 | 100.7 | 44,800,000 | 70,000 | 12.6 | 880,000 |
| Allegan | 97,000 | 87,000 | 123.0 | 10,700,000 | 9,000 | 11.7 | 105,000 |
| Berrien | 51,000 | 48,000 | 122.9 | 5,900,000 | 2,500 | 11.6 | 29,000 |
| Cass | 81,000 | 77,000 | 110.1 | 8,480,000 | 3,000 | 12.0 | 36,000 |
| Kalamazoo | 61,000 | 56,000 | 119.6 | 6,700,000 | 4,500 | 14.2 | 64,000 |
| Kent | 44,000 | 37,000 | 89.2 | 3,300,000 | 6,000 | 10.5 | 63,000 |
| Ottawa | 56,000 | 47,000 | 85.1 | 4,000,000 | 8,500 | 10.9 | 93,000 |
| Van Buren | 35,000 | 33,000 | 106.1 | 3,500,000 | 1,500 | 13.3 | 20,000 |
| **Southwest (7)** | 425,000 | 385,000 | 110.6 | 42,580,000 | 35,000 | 11.7 | 410,000 |
| Barry | 37,000 | 32,000 | 96.3 | 3,080,000 | 4,500 | 11.1 | 50,000 |
| Branch | 106,000 | 100,000 | 121.2 | 12,120,000 | 5,000 | 15.2 | 76,000 |
| Calhoun | 92,000 | 84,000 | 103.3 | 8,680,000 | 7,000 | 12.3 | 86,000 |
| Clinton | 75,000 | 59,000 | 101.9 | 6,010,000 | 15,000 | 15.7 | 235,000 |
| Eaton | 66,000 | 63,000 | 107.0 | 6,740,000 | 2,500 | 14.8 | 37,000 |
| Hillsdale | 82,000 | 76,000 | 109.6 | 8,330,000 | 5,500 | 15.8 | 87,000 |
| Ingham | 68,000 | 61,000 | 104.1 | 6,350,000 | 6,500 | 10.8 | 70,000 |
| Ionia | 76,000 | 68,000 | 91.0 | 6,190,000 | 7,500 | 9.1 | 68,000 |
| Jackson | 81,000 | 70,000 | 117.1 | 8,200,000 | 10,000 | 15.8 | 158,000 |
| St. Joseph | 110,000 | 105,000 | 119.8 | 12,580,000 | 2,000 | 13.0 | 26,000 |
| Shiawassee | 47,000 | 42,000 | 107.1 | 4,500,000 | 4,500 | 10.4 | 47,000 |
| **South Central (8)** | 840,000 | 760,000 | 108.9 | 82,780,000 | 70,000 | 13.4 | 940,000 |
| Genesee | 50,000 | 45,000 | 94.4 | 4,250,000 | 4,000 | 15.0 | 60,000 |
| Lapeer | 71,000 | 62,000 | 112.9 | 7,000,000 | 7,000 | 14.3 | 100,000 |
| Lenawee | 108,000 | 101,000 | 126.7 | 12,800,000 | 6,000 | 12.5 | 75,000 |
| Livingston | 38,000 | 31,500 | 101.6 | 3,200,000 | 5,000 | 11.8 | 59,000 |
| Macomb | 16,000 | 14,000 | 102.1 | 1,430,000 | 1,500 | 13.3 | 20,000 |
| Monroe | 68,000 | 65,000 | 119.2 | 7,750,000 | 2,000 | 15.0 | 30,000 |
| Oakland | 12,000 | 10,000 | 95.0 | 950,000 | 1,200 | 10.0 | 12,000 |
| St. Clair | 33,000 | 29,000 | 91.4 | 2,650,000 | 3,000 | 8.3 | 25,000 |
| Washtenaw | 61,000 | 55,000 | 118.2 | 6,500,000 | 5,000 | 15.0 | 75,000 |
| Wayne | 3,000 | 2,500 | 120.0 | 300,000 | 300 | 13.3 | 4,000 |
| **Southeast (9)** | 460,000 | 415,000 | 112.8 | 46,830,000 | 35,000 | 13.1 | 460,000 |
| **State** | 2,700,000 | 2,300,000 | 105.0 | 241,500,000 | 330,000 | 11.0 | 3,630,000 |

Note: Corn estimates are not published for counties with less than 500 acres.

## Corn: Acreage, Yield, Production, 1991

| District and County | Planted for all Purposes | Grain | | | Silage | | |
|---|---|---|---|---|---|---|---|
| | | Harvested | Yield | Production | Harvested | Yield | Production |
| | *Acres* | *Acres* | *Bushels* | | *Acres* | *Tons* | |
| Alger | – | – | – | – | – | – | – |
| Baraga | – | – | – | – | – | – | – |
| Chippewa | – | – | – | – | – | – | – |
| Delta | 3,600 | 2,400 | 72.9 | 175,000 | 1,150 | 8.3 | 9,500 |
| Dickinson | 1,500 | 700 | 85.7 | 60,000 | 750 | 10.7 | 8,000 |
| Gogebic | – | – | – | – | – | – | – |
| Houghton | – | – | – | – | – | – | – |
| Iron | – | – | – | – | – | – | – |
| Keweenaw | – | – | – | – | – | – | – |
| Luce | – | – | – | – | – | – | – |
| Mackinac | – | – | – | – | – | – | – |
| Marquette | – | – | – | – | – | – | – |
| Menominee | 13,500 | 7,500 | 78.7 | 590,000 | 5,900 | 13.1 | 77,000 |
| Ontonagon | – | – | – | – | – | – | – |
| Schoolcraft | – | – | – | – | – | – | – |
| **Upper Peninsula (1)** | 21,000 | 11,500 | 77.4 | 890,000 | 9,300 | 11.8 | 110,000 |
| Antrim | 4,200 | 2,600 | 78.8 | 205,000 | 1,550 | 9.0 | 14,000 |
| Benzie | 2,200 | 1,100 | 86.4 | 95,000 | 1,100 | 12.7 | 14,000 |
| Charlevoix | 3,500 | 2,400 | 89.6 | 215,000 | 1,050 | 11.4 | 12,000 |
| Emmet | 2,800 | 2,100 | 83.3 | 175,000 | 650 | 12.3 | 8,000 |
| Grand Traverse | 7,200 | 5,900 | 94.1 | 555,000 | 1,200 | 8.3 | 10,000 |
| Kalkaska | 1,500 | 1,200 | 87.5 | 105,000 | 300 | 10.0 | 3,000 |
| Leelanau | 3,600 | 2,700 | 85.2 | 230,000 | 850 | 8.2 | 7,000 |
| Manistee | 1,800 | 1,400 | 96.4 | 135,000 | 400 | 12.5 | 5,000 |
| Missaukee | 11,900 | 5,400 | 104.6 | 565,000 | 6,300 | 11.3 | 71,000 |
| Wexford | 2,300 | 1,700 | 88.2 | 150,000 | 600 | 10.0 | 6,000 |
| **Northwest (2)** | 41,000 | 26,500 | 91.7 | 2,430,000 | 14,000 | 10.7 | 150,000 |
| Alcona | 2,000 | 1,500 | 66.7 | 100,000 | 500 | 13.0 | 6,500 |
| Alpena | 6,900 | 5,300 | 83.0 | 440,000 | 1,500 | 10.7 | 16,000 |
| Cheboygan | 1,300 | 500 | 82.0 | 41,000 | 800 | 13.8 | 11,000 |
| Crawford | – | – | – | – | – | – | – |
| Iosco | 8,000 | 5,500 | 103.6 | 570,000 | 2,400 | 13.8 | 33,000 |
| Montmorency | 2,400 | 1,400 | 96.4 | 135,000 | 1,000 | 13.0 | 13,000 |
| Ogemaw | 9,200 | 6,500 | 90.0 | 585,000 | 2,600 | 13.1 | 34,000 |
| Oscoda | 800 | 300 | 80.0 | 24,000 | 500 | 12.0 | 6,000 |
| Otsego | 1,300 | 700 | 100.0 | 70,000 | 600 | 12.5 | 7,500 |
| Presque Isle | 3,100 | 1,300 | 88.5 | 115,000 | 1,800 | 12.8 | 23,000 |
| Roscommon | – | – | – | – | – | – | – |
| **Northeast (3)** | 35,000 | 23,000 | 90.4 | 2,080,000 | 11,700 | 12.8 | 150,000 |
| Lake | 600 | 400 | 87.5 | 35,000 | 200 | 10.0 | 2,000 |
| Mason | 10,900 | 8,200 | 103.7 | 850,000 | 2,600 | 13.5 | 35,000 |
| Muskegon | 20,000 | 18,500 | 108.1 | 2,000,000 | 1,300 | 13.1 | 17,000 |
| Newaygo | 23,500 | 18,500 | 113.5 | 2,100,000 | 4,900 | 9.8 | 48,000 |
| Oceana | 8,000 | 6,400 | 96.1 | 615,000 | 1,500 | 12.0 | 18,000 |
| **West Central (4)** | 63,000 | 52,000 | 107.7 | 5,600,000 | 10,500 | 11.4 | 120,000 |
| Clare | 5,500 | 3,500 | 95.7 | 335,000 | 1,900 | 12.1 | 23,000 |
| Gladwin | 7,000 | 6,000 | 89.2 | 535,000 | 900 | 14.4 | 13,000 |
| Gratiot | 89,000 | 80,000 | 132.5 | 10,600,000 | 8,700 | 14.4 | 125,000 |

## Corn: Acreage, Yield, Production, 1991

| District and County | Planted for all Purposes | Grain | | | Silage | | |
|---|---|---|---|---|---|---|---|
| | | Harvested | Yield | Production | Harvested | Yield | Production |
| | *Acres* | *Acres* | | *Bushels* | *Acres* | | *Tons* |
| Isabella | 49,000 | 38,000 | 106.6 | 4,050,000 | 10,800 | 14.6 | 158,000 |
| Mecosta | 16,000 | 13,500 | 106.7 | 1,440,000 | 2,300 | 11.3 | 26,000 |
| Midland | 21,000 | 20,000 | 118.5 | 2,370,000 | 800 | 13.8 | 11,000 |
| Montcalm | 53,000 | 46,000 | 113.0 | 5,200,000 | 6,700 | 12.8 | 86,000 |
| Osceola | 9,500 | 5,000 | 94.0 | 470,000 | 4,400 | 10.9 | 48,000 |
| **Central (5)** | 250,000 | 212,000 | 117.9 | 25,000,000 | 36,500 | 13.4 | 490,000 |
| Arenac | 17,000 | 15,000 | 122.7 | 1,840,000 | 1,900 | 13.2 | 25,000 |
| Bay | 43,000 | 41,000 | 135.4 | 5,550,000 | 1,800 | 12.8 | 23,000 |
| Huron | 155,000 | 122,000 | 123.8 | 15,100,000 | 32,000 | 16.1 | 515,000 |
| Saginaw | 84,000 | 80,000 | 128.8 | 10,300,000 | 3,500 | 16.6 | 58,000 |
| Sanilac | 124,000 | 100,000 | 109.0 | 10,900,000 | 23,300 | 12.2 | 284,000 |
| Tuscola | 92,000 | 87,000 | 107.0 | 9,310,000 | 4,500 | 14.4 | 65,000 |
| **East Central (6)** | 515,000 | 445,000 | 119.1 | 53,000,000 | 67,000 | 14.5 | 970,000 |
| Allegan | 90,000 | 81,000 | 123.5 | 10,000,000 | 8,600 | 15.9 | 137,000 |
| Berrien | 46,000 | 43,000 | 102.3 | 4,400,000 | 2,800 | 16.1 | 45,000 |
| Cass | 73,000 | 70,000 | 104.3 | 7,300,000 | 2,600 | 12.3 | 32,000 |
| Kalamazoo | 55,000 | 52,000 | 103.8 | 5,400,000 | 2,700 | 14.4 | 39,000 |
| Kent | 44,000 | 37,000 | 116.2 | 4,300,000 | 6,800 | 16.8 | 114,000 |
| Ottawa | 50,000 | 42,000 | 106.0 | 4,450,000 | 7,700 | 13.1 | 101,000 |
| Van Buren | 32,000 | 30,000 | 105.0 | 3,150,000 | 1,800 | 12.2 | 22,000 |
| **Southwest (7)** | 390,000 | 355,000 | 109.9 | 39,000,000 | 33,000 | 14.8 | 490,000 |
| Barry | 36,000 | 32,000 | 121.9 | 3,900,000 | 3,800 | 14.5 | 55,000 |
| Branch | 102,000 | 97,000 | 111.3 | 10,800,000 | 4,300 | 14.0 | 60,000 |
| Calhoun | 86,000 | 79,000 | 94.9 | 7,500,000 | 6,500 | 15.8 | 103,000 |
| Clinton | 74,000 | 58,000 | 117.6 | 6,820,000 | 15,600 | 16.3 | 255,000 |
| Eaton | 65,000 | 62,000 | 119.8 | 7,430,000 | 2,600 | 15.8 | 41,000 |
| Hillsdale | 97,000 | 89,000 | 89.9 | 8,000,000 | 7,400 | 15.0 | 111,000 |
| Ingham | 65,000 | 59,000 | 116.9 | 6,900,000 | 5,600 | 16.1 | 90,000 |
| Ionia | 77,000 | 69,000 | 129.4 | 8,930,000 | 7,500 | 14.7 | 110,000 |
| Jackson | 75,000 | 65,000 | 106.2 | 6,900,000 | 9,600 | 15.1 | 145,000 |
| St. Joseph | 105,000 | 102,000 | 129.4 | 13,200,000 | 2,400 | 11.7 | 28,000 |
| Shiawassee | 48,000 | 43,000 | 107.4 | 4,620,000 | 4,700 | 13.2 | 62,000 |
| **South Central (8)** | 830,000 | 755,000 | 112.6 | 85,000,000 | 70,000 | 15.1 | 1,060,000 |
| Genesee | 44,000 | 41,000 | 101.2 | 4,150,000 | 2,800 | 16.8 | 47,000 |
| Lapeer | 64,000 | 57,000 | 104.2 | 5,940,000 | 6,700 | 12.5 | 84,000 |
| Lenawee | 127,000 | 119,000 | 88.9 | 10,580,000 | 7,500 | 13.3 | 100,000 |
| Livingston | 34,000 | 30,000 | 110.0 | 3,300,000 | 3,900 | 13.3 | 52,000 |
| Macomb | 15,000 | 13,300 | 105.3 | 1,400,000 | 1,600 | 12.5 | 20,000 |
| Monroe | 63,000 | 61,000 | 90.2 | 5,500,000 | 1,700 | 12.4 | 21,000 |
| Oakland | 12,000 | 11,500 | 82.6 | 950,000 | 400 | 11.3 | 4,500 |
| St. Clair | 31,000 | 28,500 | 102.1 | 2,910,000 | 2,400 | 12.5 | 30,000 |
| Washtenaw | 62,000 | 56,000 | 89.3 | 5,000,000 | 5,800 | 15.3 | 89,000 |
| Wayne | 3,000 | 2,700 | 100.0 | 270,000 | 200 | 12.5 | 2,500 |
| **Southeast (9)** | 455,000 | 420,000 | 95.2 | 40,000,000 | 33,000 | 13.6 | 450,000 |
| **State** | 2,600,000 | 2,300,000 | 110.0 | 253,000,000 | 285,000 | 14.0 | 3,990,000 |

Note: Corn estimates are not published for counties with less than 500 acres.

## Wheat: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Bushels* | | *Acres* | | *Bushels* | |
| Alger | – | – | – | – | – | – | – | – |
| Baraga | – | – | – | – | – | – | – | – |
| Chipppewa | 500 | 450 | 42.2 | 19,000 | 400 | 400 | 27.5 | 11,000 |
| Delta | 800 | 700 | 30.0 | 21,000 | 500 | 500 | 32.0 | 16,000 |
| Dickinson | – | – | – | – | – | – | – | – |
| Gogebic | – | – | – | – | – | – | – | – |
| Houghton | – | – | – | – | – | – | – | – |
| Iron | 200 | 190 | 30.0 | 5,700 | – | – | – | – |
| Keweenaw | – | – | – | – | – | – | – | – |
| Luce | 100 | 100 | 29.0 | 2,900 | – | – | – | – |
| Mackinac | 100 | 100 | 25.0 | 2,500 | 100 | 100 | 25.0 | 2,500 |
| Marquette | – | – | – | – | – | – | – | – |
| Menominee | 150 | 130 | 23.1 | 3,000 | 150 | 150 | 36.7 | 5,500 |
| Ontonagon | – | – | – | – | – | – | – | – |
| Schoolcraft | 300 | 280 | 51.8 | 14,500 | – | – | – | – |
| **Upper Peninsula (1)** | 2,200 | 2,000 | 35.0 | 70,000 | 1,300 | 1,300 | 30.8 | 40,000 |
| Antrim | 500 | 460 | 16.1 | 7,400 | 700 | 690 | 37.7 | 26,000 |
| Benzie | – | – | – | – | 100 | 100 | 30.0 | 3,000 |
| Charlevoix | – | – | – | – | 100 | 100 | 30.0 | 3,000 |
| Emmet | – | – | – | – | 100 | 100 | 30.0 | 3,000 |
| Grand Traverse | 2,500 | 2,300 | 31.0 | 71,400 | 1,800 | 1,760 | 26.7 | 47,000 |
| Kalkaska | 500 | 490 | 28.6 | 14,000 | 400 | 400 | 35.0 | 14,000 |
| Leelanau | 200 | 180 | 30.0 | 5,400 | 300 | 300 | 30.0 | 9,000 |
| Manistee | 450 | 350 | 22.0 | 7,700 | 300 | 290 | 31.0 | 9,000 |
| Missaukee | 800 | 790 | 41.1 | 32,500 | 700 | 680 | 38.2 | 26,000 |
| Wexford | 700 | 680 | 33.8 | 23,000 | 800 | 780 | 32.1 | 25,000 |
| **Northwest (2)** | 5,800 | 5,400 | 30.6 | 165,000 | 5,300 | 5,200 | 31.7 | 165,000 |
| Alcona | 700 | 670 | 40.3 | 27,000 | 500 | 470 | 38.3 | 18,000 |
| Alpena | 2,000 | 1,850 | 48.1 | 89,000 | 1,500 | 1,450 | 37.9 | 55,000 |
| Cheboygan | 150 | 140 | 26.4 | 3,700 | 200 | 200 | 35.0 | 7,000 |
| Crawford | – | – | – | – | – | – | – | – |
| Iosco | 1,800 | 1,650 | 60.6 | 100,000 | 1,400 | 1,350 | 44.4 | 60,000 |
| Montmorency | 800 | 750 | 44.0 | 33,000 | 600 | 590 | 37.3 | 22,000 |
| Ogemaw | 2,200 | 2,050 | 59.5 | 122,000 | 1,100 | 1,070 | 39.3 | 42,000 |
| Oscoda | – | – | – | – | – | – | – | – |
| Otsego | 400 | 300 | 28.3 | 8,500 | 500 | 490 | 32.7 | 16,000 |
| Presque Isle | 1,900 | 1,650 | 39.4 | 65,000 | 1,000 | 980 | 40.8 | 40,000 |
| Roscommon | – | – | – | – | – | – | – | – |
| **Northeast (3)** | 10,000 | 9,100 | 49.5 | 450,000 | 6,800 | 6,600 | 39.4 | 260,000 |
| Lake | 100 | 100 | 40.0 | 4,000 | 100 | 100 | 40.0 | 4,000 |
| Mason | 3,100 | 3,050 | 49.2 | 150,000 | 2,300 | 2,250 | 35.6 | 80,000 |
| Muskegon | 1,900 | 1,550 | 43.9 | 68,000 | 2,100 | 2,050 | 36.1 | 74,000 |
| Newaygo | 1,600 | 1,550 | 34.2 | 53,000 | 1,700 | 1,680 | 36.9 | 62,000 |
| Oceana | 1,300 | 1,250 | 40.0 | 50,000 | 1,400 | 1,320 | 34.1 | 45,000 |
| **West Central (4)** | 8,000 | 7,500 | 43.3 | 325,000 | 7,600 | 7,400 | 35.8 | 265,000 |
| Clare | 2,200 | 2,100 | 50.0 | 105,000 | 1,500 | 1,470 | 37.4 | 55,000 |
| Gladwin | 4,000 | 3,800 | 40.8 | 155,000 | 2,300 | 2,200 | 44.5 | 98,000 |
| Gratiot | 18,000 | 16,500 | 58.2 | 960,000 | 15,000 | 14,600 | 44.5 | 650,000 |

# Wheat: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Bushels* | | *Acres* | | *Bushels* | |
| Isabella | 13,500 | 13,000 | 46.9 | 610,000 | 10,500 | 10,400 | 44.7 | 465,000 |
| Mecosta | 2,800 | 2,500 | 44.0 | 110,000 | 2,600 | 2,550 | 43.1 | 110,000 |
| Midland | 3,800 | 3,600 | 54.2 | 195,000 | 3,500 | 3,400 | 44.1 | 150,000 |
| Montcalm | 20,000 | 19,000 | 63.2 | 1,200,000 | 18,000 | 17,800 | 39.9 | 710,000 |
| Osecola | 700 | 500 | 50.0 | 25,000 | 600 | 580 | 37.9 | 22,000 |
| **Central (5)** | 65,000 | 61,000 | 55.1 | 3,360,000 | 54,000 | 53,000 | 42.6 | 2,260,000 |
| Arenac | 6,000 | 5,800 | 58.6 | 340,000 | 4,000 | 3,900 | 48.7 | 190,000 |
| Bay | 7,000 | 6,700 | 65.7 | 440,000 | 5,000 | 4,800 | 45.8 | 220,000 |
| Huron | 53,000 | 52,000 | 71.9 | 3,740,000 | 42,000 | 41,500 | 52.0 | 2,160,000 |
| Saginaw | 31,000 | 28,500 | 60.0 | 1,710,000 | 20,000 | 19,800 | 49.0 | 970,000 |
| Sanilac | 45,000 | 44,500 | 63.8 | 2,840,000 | 45,000 | 44,500 | 49.2 | 2,190,000 |
| Tuscola | 30,000 | 29,500 | 68.5 | 2,020,000 | 24,000 | 23,000 | 52.2 | 1,200,000 |
| **East Central (6)** | 172,000 | 167,000 | 66.4 | 11,090,000 | 140,000 | 137,500 | 50.4 | 6,930,000 |
| Allegan | 10,000 | 9,600 | 54.2 | 520,000 | 10,000 | 9,800 | 33.7 | 330,000 |
| Berrien | 8,000 | 7,900 | 51.9 | 410,000 | 7,000 | 6,900 | 39.1 | 270,000 |
| Cass | 8,000 | 7,900 | 42.4 | 335,000 | 7,500 | 7,300 | 42.5 | 310,000 |
| Kalamazoo | 10,000 | 9,900 | 42.9 | 425,000 | 10,000 | 9,800 | 38.3 | 375,000 |
| Kent | 9,000 | 8,900 | 55.6 | 495,000 | 9,000 | 8,800 | 42.0 | 370,000 |
| Ottawa | 4,500 | 4,400 | 43.2 | 190,000 | 3,500 | 3,450 | 36.2 | 125,000 |
| Van Buren | 3,500 | 3,400 | 36.8 | 125,000 | 3,000 | 2,950 | 30.5 | 90,000 |
| **Southwest (7)** | 53,000 | 52,000 | 48.1 | 2,500,000 | 50,000 | 49,000 | 38.2 | 1,870,000 |
| Barry | 11,000 | 10,800 | 49.1 | 530,000 | 11,000 | 10,900 | 33.0 | 360,000 |
| Branch | 9,000 | 8,700 | 36.8 | 320,000 | 10,000 | 9,900 | 38.9 | 385,000 |
| Calhoun | 18,000 | 17,900 | 41.3 | 740,000 | 19,000 | 18,800 | 37.2 | 700,000 |
| Clinton | 31,000 | 30,700 | 50.5 | 1,550,000 | 29,000 | 28,400 | 39.8 | 1,130,000 |
| Eaton | 27,000 | 26,600 | 59.4 | 1,580,000 | 25,000 | 24,500 | 39.6 | 970,000 |
| Hillsdale | 12,000 | 11,400 | 50.0 | 570,000 | 12,000 | 11,900 | 38.7 | 460,000 |
| Ingham | 19,000 | 18,700 | 55.6 | 1,040,000 | 19,000 | 18,800 | 38.8 | 730,000 |
| Ionia | 24,000 | 23,800 | 49.2 | 1,170,000 | 25,000 | 24,500 | 40.4 | 990,000 |
| Jackson | 12,000 | 11,700 | 51.3 | 600,000 | 11,000 | 10,900 | 44.0 | 480,000 |
| St. Joseph | 4,000 | 3,900 | 35.9 | 140,000 | 5,000 | 4,900 | 37.8 | 185,000 |
| Shiawassee | 27,000 | 26,800 | 55.2 | 1,480,000 | 24,000 | 23,500 | 41.3 | 970,000 |
| **South Central (8)** | 194,000 | 191,000 | 50.9 | 9,720,000 | 190,000 | 187,000 | 39.4 | 7,360,000 |
| Genesee | 13,000 | 12,800 | 41.4 | 530,000 | 9,000 | 8,900 | 41.6 | 370,000 |
| Lapeer | 13,500 | 13,400 | 42.5 | 570,000 | 12,000 | 11,800 | 37.3 | 440,000 |
| Lenawee | 31,000 | 30,000 | 58.0 | 1,740,000 | 33,000 | 32,300 | 50.5 | 1,630,000 |
| Livingston | 9,000 | 8,900 | 49.4 | 440,000 | 8,000 | 7,900 | 36.7 | 290,000 |
| Macomb | 6,000 | 5,900 | 48.3 | 285,000 | 5,000 | 4,900 | 51.0 | 250,000 |
| Monroe | 26,000 | 24,500 | 67.8 | 1,660,000 | 18,000 | 17,700 | 42.4 | 750,000 |
| Oakland | 2,500 | 2,400 | 45.8 | 110,000 | 2,300 | 2,250 | 44.4 | 100,000 |
| St. Clair | 18,000 | 16,400 | 57.9 | 950,000 | 11,000 | 10,800 | 36.1 | 390,000 |
| Washtenaw | 20,000 | 19,800 | 64.6 | 1,280,000 | 16,000 | 15,800 | 43.0 | 680,000 |
| Wayne | 1,000 | 900 | 38.9 | 35,000 | 700 | 650 | 46.2 | 30,000 |
| **Southeast (9)** | 140,000 | 135,000 | 56.3 | 7,600,000 | 15,000 | 113,000 | 43.6 | 4,930,000 |
| **State** | 650,000 | 630,000 | 56.0 | 35,280,000 | 570,000 | 560,000 | 43.0 | 24,080,000 |

Note: Wheat estimates are not published for counties with less than 100 acres.

# Soybeans: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Bushels* | | *Acres* | | *Bushels* | |
| Alger | – | – | – | – | – | – | – | – |
| Baraga | – | – | – | – | – | – | – | – |
| Chippewa | – | – | – | – | – | – | – | – |
| Delta | – | – | – | – | – | – | – | – |
| Dickinson | – | – | – | – | – | – | – | – |
| Gogebic | – | – | – | – | – | – | – | – |
| Houghton | – | – | – | – | – | – | – | – |
| Iron | – | – | – | – | – | – | – | – |
| Keweenaw | – | – | – | – | – | – | – | – |
| Luce | – | – | – | – | – | – | – | – |
| Mackinac | – | – | – | – | – | – | – | – |
| Marquette | – | – | – | – | – | – | – | – |
| Menominee | – | – | – | – | – | – | – | – |
| Ontonagon | – | – | – | – | – | – | – | – |
| Schoolcraft | 100 | 75 | 24.0 | 1,800 | 200 | 190 | 31.6 | 6,000 |
| **Upper Peninsula (1)** | 200 | 150 | 23.3 | 3,500 | 300 | 290 | 31.0 | 9,000 |
| Antrim | – | – | – | – | 100 | 90 | 35.6 | 3,200 |
| Benzie | – | – | – | – | – | – | – | – |
| Charlevoix | – | – | – | – | – | – | – | – |
| Emmet | – | – | – | – | – | – | – | – |
| Grand Traverse | 100 | 80 | 16.3 | 1,300 | 200 | 190 | 34.2 | 6,500 |
| Kalkaska | – | – | – | – | – | – | – | – |
| Leelanau | – | – | – | – | – | – | – | – |
| Manistee | – | – | – | – | – | – | – | – |
| Missaukee | – | – | – | – | – | – | – | – |
| Wexford | 200 | 130 | 16.2 | 2,100 | – | – | – | – |
| **Northwest (2)** | 400 | 250 | 16.0 | 4,000 | 500 | 480 | 33.3 | 16,000 |
| Alcona | 100 | 70 | 12.1 | 850 | – | – | – | – |
| Alpena | 600 | 210 | 12.1 | 2,550 | 550 | 530 | 30.2 | 16,000 |
| Cheboygan | – | – | – | – | – | – | – | – |
| Crawford | – | – | – | – | – | – | – | – |
| Iosco | 240 | 150 | 12.3 | 1,850 | 350 | 340 | 32.4 | 11,000 |
| Montmorency | 200 | 120 | 12.1 | 1,450 | 220 | 210 | 26.7 | 5,600 |
| Ogemaw | 150 | 85 | 12.4 | 1,050 | 170 | 160 | 28.8 | 4,600 |
| Oscoda | – | – | – | – | – | – | – | – |
| Otsego | – | – | – | – | – | – | – | – |
| Presque Isle | 100 | 60 | 11.7 | 700 | 150 | 140 | 28.6 | 4,000 |
| Roscommon | – | – | – | – | – | – | – | – |
| **Northeast (3)** | 1,400 | 700 | 12.1 | 8,500 | 1,600 | 1,530 | 29.4 | 45,000 |
| Lake | – | – | – | – | – | – | – | – |
| Mason | 900 | 890 | 20.2 | 18,000 | 800 | 780 | 28.2 | 22,000 |
| Muskegon | 3,200 | 3,170 | 16.7 | 53,000 | 3,100 | 3,050 | 34.4 | 105,000 |
| Newaygo | 500 | 450 | 28.9 | 13,000 | 500 | 480 | 37.5 | 18,000 |
| Oceana | 400 | 390 | 25.6 | 10,000 | 200 | 190 | 26.3 | 5,000 |
| **West Central (4)** | 5,000 | 4,900 | 19.2 | 94,000 | 4,600 | 4,500 | 33.3 | 150,000 |
| Clare | 200 | 170 | 22.9 | 3,900 | 200 | 190 | 31.6 | 6,000 |
| Gladwin | 1,400 | 1,350 | 26.7 | 36,000 | 1,700 | 1,640 | 28.7 | 47,000 |
| Gratiot | 78,000 | 77,900 | 29.2 | 2,275,000 | 80,000 | 79,600 | 37.8 | 3,010,000 |

## Soybeans: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | | *Bushels* | *Acres* | | | *Bushels* |
| Isabella | 21,000 | 20,900 | 30.6 | 640,000 | 19,000 | 18,900 | 36.0 | 680,000 |
| Mecosta | 500 | 490 | 28.8 | 14,100 | 300 | 290 | 34.5 | 10,000 |
| Midland | 19,500 | 19,100 | 31.9 | 610,000 | 20,000 | 19,900 | 38.4 | 765,000 |
| Montcalm | 14,000 | 13,700 | 27.7 | 380,000 | 13,400 | 13,300 | 35.3 | 470,000 |
| Osceola | 400 | 390 | 28.2 | 11,000 | 400 | 380 | 31.6 | 12,000 |
| **Central (5)** | 135,000 | 134,000 | 29.6 | 3,970,000 | 135,000 | 134,200 | 37.3 | 5,000,000 |
| Arenac | 7,000 | 6,900 | 30.4 | 210,000 | 7,000 | 6,900 | 30.4 | 210,000 |
| Bay | 25,000 | 24,900 | 32.9 | 820,000 | 26,000 | 25,800 | 39.5 | 1,020,000 |
| Huron | 18,000 | 17,800 | 30.3 | 540,000 | 16,000 | 15,900 | 37.4 | 595,000 |
| Saginaw | 131,000 | 130,800 | 32.3 | 4,220,000 | 140,000 | 139,200 | 38.6 | 5,380,000 |
| Sanilac | 73,000 | 71,700 | 26.6 | 1,905,000 | 63,000 | 62,600 | 34.1 | 2,135,000 |
| Tuscola | 51,000 | 50,900 | 31.9 | 1,625,000 | 48,000 | 47,600 | 39.1 | 1,860,000 |
| **East Central (6)** | 305,000 | 303,000 | 30.8 | 9,320,000 | 300,000 | 298,000 | 37.6 | 11,200,000 |
| Allegan | 21,000 | 20,900 | 30.1 | 630,000 | 18,000 | 17,900 | 36.9 | 660,000 |
| Berrien | 36,000 | 35,900 | 32.6 | 1,170,000 | 35,000 | 34,800 | 35.2 | 1,225,000 |
| Cass | 32,000 | 31,900 | 35.0 | 1,115,000 | 31,000 | 30,800 | 35.1 | 1,080,000 |
| Kalamazoo | 26,000 | 25,900 | 33.0 | 855,000 | 25,000 | 24,800 | 40.7 | 1,010,000 |
| Kent | 7,000 | 6,900 | 19.6 | 135,000 | 6,500 | 6,400 | 36.7 | 235,000 |
| Ottawa | 3,000 | 2,900 | 20.7 | 60,000 | 2,500 | 2,400 | 39.6 | 95,000 |
| Van Buren | 13,000 | 12,600 | 23.4 | 295,000 | 15,000 | 14,900 | 33.2 | 495,000 |
| **Southwest (7)** | 138,000 | 137,000 | 31.1 | 4,260,000 | 133,000 | 132,000 | 36.4 | 4,800,000 |
| Barry | 21,000 | 20,900 | 35.2 | 735,000 | 19,000 | 18,900 | 48.4 | 915,000 |
| Branch | 45,000 | 44,800 | 40.4 | 1,810,000 | 42,000 | 41,800 | 37.1 | 1,550,000 |
| Calhoun | 35,000 | 34,900 | 36.1 | 1,260,000 | 33,000 | 32,700 | 38.4 | 1,255,000 |
| Clinton | 72,000 | 71,300 | 36.2 | 2,580,000 | 69,000 | 68,700 | 38.5 | 2,645,000 |
| Eaton | 45,000 | 44,900 | 36.5 | 1,640,000 | 40,000 | 39,800 | 45.0 | 1,790,000 |
| Hillsdale | 51,000 | 50,900 | 39.4 | 2,005,000 | 45,000 | 44,600 | 35.2 | 1,570,000 |
| Ingham | 36,000 | 35,900 | 37.5 | 1,345,000 | 33,000 | 32,900 | 46.7 | 1,535,000 |
| Ionia | 44,000 | 43,900 | 31.2 | 1,370,000 | 40,000 | 39,800 | 46.6 | 1,855,000 |
| Jackson | 14,000 | 13,900 | 31.7 | 440,000 | 13,000 | 12,900 | 43.4 | 560,000 |
| St. Joseph | 42,000 | 41,000 | 39.5 | 1,620,000 | 37,000 | 36,800 | 42.3 | 1,555,000 |
| Shiawassee | 85,000 | 84,600 | 31.6 | 2,675,000 | 89,000 | 88,100 | 38.3 | 3,370,000 |
| **South Central (8)** | 490,000 | 487,000 | 35.9 | 17,480,000 | 460,000 | 457,000 | 40.7 | 18,600,000 |
| Genesee | 32,000 | 31,900 | 24.9 | 795,000 | 31,000 | 30,700 | 36.2 | 1,110,000 |
| Lapeer | 17,000 | 16,700 | 22.8 | 380,000 | 15,000 | 14,800 | 35.5 | 525,000 |
| Lenawee | 124,000 | 123,700 | 37.8 | 4,680,000 | 120,000 | 119,200 | 40.4 | 4,810,000 |
| Livingston | 8,000 | 7,900 | 31.6 | 250,000 | 8,000 | 7,900 | 37.3 | 295,000 |
| Macomb | 20,000 | 19,600 | 30.6 | 600,000 | 21,000 | 20,900 | 35.6 | 745,000 |
| Monroe | 95,000 | 94,700 | 34.6 | 3,280,000 | 100,000 | 99,300 | 31.3 | 3,110,000 |
| Oakland | 2,000 | 1,900 | 31.6 | 60,000 | 700 | 600 | 33.3 | 20,000 |
| St. Clair | 45,000 | 44,800 | 26.7 | 1,195,000 | 42,000 | 41,600 | 34.9 | 1,450,000 |
| Washtenaw | 26,000 | 25,900 | 37.8 | 980,000 | 23,500 | 23,300 | 35.6 | 830,000 |
| Wayne | 6,000 | 5,900 | 27.1 | 160,000 | 3,800 | 3,700 | 28.4 | 105,000 |
| **Southeast (9)** | 375,000 | 373,000 | 33.2 | 12,380,000 | 365,000 | 362,000 | 35.9 | 13,000,000 |
| **State** | 1,450,000 | 1,440,000 | 33.0 | 47,520,000 | 1,400,000 | 1,390,000 | 38.0 | 52,820,000 |

Note: Soybean estimates are not published for counties with less than 100 acres.

## Oats: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Bushels* | | *Acres* | | *Bushels* | |
| Alger | 150 | 130 | 61.5 | 8,000 | 100 | 80 | 40.0 | 3,200 |
| Baraga | 450 | 430 | 51.2 | 22,000 | 300 | 250 | 48.0 | 12,000 |
| Chippewa | 2,200 | 2,000 | 65.0 | 130,000 | 2,200 | 1,800 | 43.9 | 79,000 |
| Delta | 1,600 | 1,550 | 74.2 | 115,000 | 1,900 | 1,500 | 51.3 | 77,000 |
| Dickinson | 700 | 450 | 51.1 | 23,000 | 600 | 500 | 46.0 | 23,000 |
| Gogebic | – | – | – | – | – | – | – | – |
| Houghton | 700 | 550 | 41.8 | 23,000 | 900 | 800 | 47.5 | 38,000 |
| Iron | 700 | 500 | 72.0 | 36,000 | 800 | 700 | 47.1 | 33,000 |
| Keweenaw | – | – | – | – | – | – | – | – |
| Luce | – | – | – | – | 100 | 90 | 35.6 | 3,200 |
| Mackinac | 500 | 350 | 45.7 | 16,000 | 450 | 340 | 38.2 | 13,000 |
| Marquette | 500 | 480 | 58.3 | 28,000 | 300 | 250 | 44.0 | 11,000 |
| Menominee | 1,900 | 1,600 | 61.3 | 98,000 | 1,900 | 1,600 | 45.6 | 73,000 |
| Ontonagon | 800 | 700 | 62.9 | 44,000 | 900 | 600 | 30.0 | 18,000 |
| Schoolcraft | 500 | 480 | 66.7 | 32,000 | 500 | 450 | 33.3 | 15,000 |
| **Upper Peninsula (1)** | 10,800 | 9,300 | 62.4 | 580,000 | 11,000 | 9,000 | 44.4 | 400,000 |
| Antrim | 950 | 900 | 46.7 | 42,000 | 900 | 700 | 32.9 | 23,000 |
| Benzie | – | – | – | – | 100 | 70 | 35.7 | 2,500 |
| Charlevoix | 350 | 260 | 57.7 | 15,000 | 400 | 300 | 43.3 | 13,000 |
| Emmet | 600 | 550 | 54.5 | 30,000 | 800 | 600 | 41.7 | 25,000 |
| Grand Traverse | 900 | 800 | 63.8 | 51,000 | 700 | 500 | 32.0 | 16,000 |
| Kalkaska | – | – | – | – | 100 | 80 | 35.0 | 2,800 |
| Leelanau | 300 | 290 | 55.2 | 16,000 | 300 | 200 | 33.5 | 6,700 |
| Manistee | 250 | 180 | 38.9 | 7,000 | 200 | 150 | 33.3 | 5,000 |
| Missaukee | 1,900 | 1,100 | 75.5 | 83,000 | 2,100 | 1,600 | 45.6 | 73,000 |
| Wexford | 350 | 250 | 48.0 | 12,000 | 400 | 300 | 43.3 | 13,000 |
| **Northwest (2)** | 5,700 | 4,400 | 59.1 | 260,000 | 6,000 | 4,500 | 40.0 | 180,000 |
| Alcona | 400 | 330 | 60.6 | 20,000 | 500 | 400 | 42.5 | 17,000 |
| Alpena | 5,600 | 5,400 | 74.1 | 400,000 | 6,200 | 5,000 | 42.0 | 210,000 |
| Cheboygan | 600 | 400 | 47.5 | 19,000 | 400 | 300 | 36.7 | 11,000 |
| Crawford | – | – | – | – | – | – | – | – |
| Iosco | 1,200 | 1,150 | 78.3 | 90,000 | 1,200 | 1,000 | 46.0 | 46,000 |
| Montmorency | 1,200 | 1,150 | 69.6 | 80,000 | 1,200 | 1,000 | 38.0 | 38,000 |
| Ogemaw | 2,200 | 1,500 | 70.0 | 105,000 | 2,000 | 1,600 | 42.5 | 68,000 |
| Oscoda | – | – | – | – | 100 | 80 | 43.8 | 3,500 |
| Otsego | 700 | 670 | 44.8 | 30,000 | 750 | 580 | 34.5 | 20,000 |
| Presque Isle | 5,000 | 4,800 | 68.8 | 330,000 | 3,600 | 3,000 | 35.0 | 105,000 |
| Roscommon | – | – | – | – | – | – | – | – |
| **Northeast (3)** | 17,000 | 15,500 | 69.7 | 1,080,000 | 16,000 | 13,000 | 40.0 | 520,000 |
| Lake | 300 | 280 | 64.3 | 18,000 | 200 | 150 | 33.3 | 5,000 |
| Mason | 1,400 | 1,300 | 65.4 | 85,000 | 2,000 | 1,700 | 44.1 | 75,000 |
| Muskegon | 1,500 | 1,300 | 67.7 | 88,000 | 1,200 | 1,000 | 43.0 | 43,000 |
| Newaygo | 1,700 | 1,400 | 47.1 | 66,000 | 1,800 | 1,500 | 43.3 | 65,000 |
| Oceana | 600 | 520 | 44.2 | 23,000 | 800 | 650 | 49.2 | 32,000 |
| **West Central (4)** | 5,500 | 4,800 | 58.3 | 280,000 | 6,000 | 5,000 | 44.0 | 220,000 |
| Clare | 1,400 | 1,200 | 58.3 | 70,000 | 900 | 700 | 35.7 | 25,000 |
| Gladwin | 1,300 | 1,250 | 84.0 | 105,000 | 1,500 | 1,200 | 40.8 | 49,000 |
| Gratiot | 1,200 | 1,150 | 65.2 | 75,000 | 1,800 | 1,400 | 47.9 | 67,000 |

## Oats: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Bushels* | | *Acres* | | *Bushels* | |
| Isabella | 4,500 | 4,000 | 56.3 | 225,000 | 4,200 | 3,500 | 48.6 | 170,000 |
| Mecosta | 1,900 | 1,100 | 45.5 | 50,000 | 1,800 | 1,400 | 40.0 | 56,000 |
| Midland | 600 | 550 | 63.6 | 35,000 | 400 | 300 | 50.0 | 15,000 |
| Montcalm | 3,700 | 3,600 | 50.0 | 180,000 | 3,900 | 3,300 | 48.8 | 161,000 |
| Osceola | 1,400 | 1,150 | 52.2 | 60,000 | 1,500 | 1,200 | 39.2 | 47,000 |
| **Central (5)** | 16,000 | 14,000 | 57.1 | 800,000 | 16,000 | 13,000 | 45.4 | 590,000 |
| Arenac | 1,800 | 1,450 | 103.4 | 150,000 | 2,100 | 1,700 | 61.8 | 105,000 |
| Bay | 800 | 750 | 80.0 | 60,000 | 700 | 600 | 50.0 | 30,000 |
| Huron | 11,000 | 10,500 | 93.3 | 980,000 | 11,500 | 9,900 | 60.1 | 595,000 |
| Saginaw | 2,300 | 1,600 | 62.5 | 100,000 | 3,000 | 2,400 | 47.9 | 115,000 |
| Sanilac | 15,300 | 12,800 | 75.8 | 970,000 | 14,500 | 12,000 | 40.8 | 490,000 |
| Tuscola | 3,800 | 3,700 | 108.1 | 400,000 | 4,200 | 3,400 | 48.5 | 165,000 |
| **East Central (6)** | 35,000 | 30,800 | 86.4 | 2,660,000 | 36,000 | 30,000 | 50.0 | 1,500,000 |
| Allegan | 2,900 | 2,500 | 44.0 | 110,000 | 2,800 | 2,200 | 44.1 | 97,000 |
| Berrien | 250 | 130 | 46.2 | 6,000 | 500 | 400 | 47.5 | 19,000 |
| Cass | 1,600 | 1,200 | 56.7 | 68,000 | 1,400 | 1,100 | 40.9 | 45,000 |
| Kalamazoo | 1,000 | 920 | 51.1 | 47,000 | 1,600 | 1,300 | 35.4 | 46,000 |
| Kent | 3,200 | 2,700 | 61.1 | 165,000 | 3,700 | 3,000 | 42.7 | 128,000 |
| Ottawa | 1,800 | 1,600 | 39.4 | 63,000 | 2,300 | 1,900 | 42.1 | 80,000 |
| Van Buren | 750 | 450 | 46.7 | 21,000 | 700 | 600 | 41.7 | 25,000 |
| **Southwest (7)** | 11,500 | 9,500 | 50.5 | 480,000 | 13,000 | 10,500 | 41.9 | 440,000 |
| Barry | 1,100 | 600 | 71.7 | 43,000 | 1,800 | 1,400 | 39.3 | 55,000 |
| Branch | 1,200 | 1,150 | 82.6 | 95,000 | 1,100 | 900 | 42.2 | 38,000 |
| Calhoun | 2,400 | 2,300 | 76.1 | 175,000 | 2,800 | 2,200 | 45.5 | 100,000 |
| Clinton | 2,600 | 1,000 | 53.0 | 53,000 | 3,400 | 2,300 | 42.2 | 97,000 |
| Eaton | 1,000 | 950 | 62.1 | 59,000 | 1,400 | 1,000 | 45.0 | 45,000 |
| Hillsdale | 1,500 | 1,350 | 81.5 | 110,000 | 1,600 | 1,200 | 54.2 | 65,000 |
| Ingham | 900 | 450 | 66.7 | 30,000 | 1,400 | 1,100 | 48.2 | 53,000 |
| Ionia | 4,000 | 3,500 | 48.6 | 170,000 | 4,400 | 3,400 | 45.6 | 155,000 |
| Jackson | 2,600 | 2,500 | 82.0 | 205,000 | 3,100 | 2,000 | 44.0 | 88,000 |
| St. Joseph | 1,000 | 700 | 85.7 | 60,000 | 800 | 600 | 40.0 | 24,000 |
| Shiawassee | 3,700 | 3,000 | 60.0 | 180,000 | 5,200 | 3,900 | 46.2 | 180,000 |
| **South Central (8)** | 22,000 | 17,500 | 67.4 | 1,180,000 | 27,000 | 20,000 | 45.0 | 900,000 |
| Genesee | 1,300 | 1,250 | 80.0 | 100,000 | 1,800 | 1,300 | 37.7 | 49,000 |
| Lapeer | 3,600 | 2,400 | 77.1 | 185,000 | 3,600 | 3,000 | 42.3 | 127,000 |
| Lenawee | 1,800 | 1,500 | 93.3 | 140,000 | 2,300 | 1,700 | 48.8 | 83,000 |
| Livingston | 1,000 | 950 | 57.9 | 55,000 | 1,200 | 900 | 38.9 | 35,000 |
| Macomb | 500 | 450 | 62.2 | 28,000 | 1,200 | 1,000 | 45.0 | 45,000 |
| Monroe | 1,400 | 1,200 | 95.8 | 115,000 | 1,200 | 950 | 51.6 | 49,000 |
| Oakland | 400 | 370 | 59.5 | 22,000 | 600 | 500 | 36.0 | 18,000 |
| St. Clair | 2,000 | 1,700 | 70.6 | 120,000 | 2,200 | 1,800 | 31.7 | 57,000 |
| Washtenaw | 4,400 | 4,300 | 72.1 | 310,000 | 4,800 | 3,800 | 48.7 | 185,000 |
| Wayne | 100 | 80 | 62.5 | 5,000 | 100 | 50 | 40.0 | 2,000 |
| **Southeast (9)** | 16,500 | 14,200 | 76.1 | 1,080,000 | 19,000 | 15,000 | 43.3 | 650,000 |
| **State** | 140,000 | 120,000 | 70.0 | 8,400,000 | 150,000 | 120,000 | 45.0 | 5,400,000 |

Note: Oat estimates are not published for counties with less than 100 acres.

## All Dry Beans: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Pounds* | *Cwt.* | *Acres* | | *Pounds* | *Cwt.* |
| Alger | — | — | — | — | — | — | — | — |
| Baraga | — | — | — | — | — | — | — | — |
| Chippewa | — | — | — | — | — | — | — | — |
| Delta | 1,500 | 1,250 | 830 | 10,400 | 1,700 | 1,700 | 1,400 | 23,800 |
| Dickinson | — | — | — | — | — | — | — | — |
| Gogebic | — | — | — | — | — | — | — | — |
| Houghton | — | — | — | — | — | — | — | — |
| Iron | — | — | — | — | — | — | — | — |
| Keweenaw | — | — | — | — | — | — | — | — |
| Luce | — | — | — | — | — | — | — | — |
| Mackinac | — | — | — | — | — | — | — | — |
| Marquette | — | — | — | — | — | — | — | — |
| Menominee | — | — | — | — | — | — | — | — |
| Ontonagon | — | — | — | — | — | — | — | — |
| Schoolcraft | — | — | — | — | — | — | — | — |
| **Upper Peninsula (1)** | 1,700 | 1,400 | 820 | 11,500 | 1,900 | 1,900 | 1,390 | 26,500 |
| Antrim | 200 | 180 | 1,390 | 2,500 | 400 | 400 | 1,880 | 7,500 |
| Benzie | — | — | — | — | — | — | — | — |
| Charlevoix | — | — | — | — | — | — | — | — |
| Emmet | — | — | — | — | — | — | — | — |
| Grand Traverse | — | — | — | — | — | — | — | — |
| KAlkaska | — | — | — | — | — | — | — | — |
| Leelanau | — | — | — | — | — | — | — | — |
| Manistee | 1,200 | 1,050 | 1,400 | 14,700 | 1,200 | 1,200 | 1,920 | 23,000 |
| Missaukee | — | — | — | — | — | — | — | — |
| Wexford | — | — | — | — | — | — | — | — |
| **Northwest (2)** | 1,500 | 1,300 | 1,380 | 18,000 | 1,800 | 1,800 | 1,890 | 34,000 |
| Alcona | 500 | 420 | 1,190 | 5,000 | — | — | — | — |
| Alpena | 3,700 | 2,700 | 930 | 25,000 | 4,200 | 3,900 | 1,180 | 46,000 |
| Cheboygan | 250 | 200 | 900 | 1,800 | 450 | 450 | 1,440 | 6,500 |
| Crawford | — | — | — | — | — | — | — | — |
| Iosco | 350 | 300 | 1,000 | 3,000 | 400 | 400 | 1,200 | 4,800 |
| Montmorency | 600 | 520 | 730 | 3,800 | 900 | 900 | 1,580 | 14,200 |
| Ogemaw | 250 | 230 | 1,000 | 2,300 | — | — | — | — |
| Oscoda | — | — | — | — | — | — | — | — |
| Otsego | — | — | — | — | 250 | 250 | 1,520 | 3,800 |
| Presque Isle | 4,700 | 2,500 | 730 | 18,200 | 5,100 | 4,800 | 1,250 | 60,000 |
| Roscommon | — | — | — | — | — | — | — | — |
| **Northeast (3)** | 10,500 | 7,000 | 860 | 60,000 | 11,600 | 11,000 | 1,270 | 140,000 |
| Lake | — | — | — | — | — | — | — | — |
| Mason | — | — | — | — | — | — | — | — |
| Muskegon | — | — | — | — | — | — | — | — |
| Newaygo | — | — | — | — | — | — | — | — |
| Oceana | — | — | — | — | — | — | — | — |
| **West Central (4)** | 200 | 200 | 1,000 | 2,000 | 200 | 200 | 1,750 | 3,500 |
| Clare | — | — | — | — | — | — | — | — |
| Gladwin | 2,300 | 2,200 | 1,300 | 28,700 | 2,800 | 2,700 | 1,630 | 44,000 |
| Gratiot | 29,000 | 27,500 | 1,450 | 400,000 | 30,000 | 29,800 | 1,910 | 570,000 |

# All Dry Beans: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Pounds* | *Cwt.* | *Acres* | | *Pounds* | *Cwt.* |
| Isabella | 6,800 | 6,500 | 1,200 | 78,000 | 7,800 | 7,700 | 1,690 | 130,000 |
| Mecosta | 2,800 | 2,600 | 1,120 | 29,000 | 2,500 | 2,300 | 1,580 | 36,400 |
| Midland | 8,000 | 7,600 | 1,220 | 93,000 | 9,300 | 9,200 | 1,740 | 160,000 |
| Montcalm | 18,000 | 17,000 | 1,350 | 230,000 | 17,500 | 17,200 | 1,910 | 328,000 |
| Osceola | – | – | – | – | – | – | – | – |
| **Central (5)** | 67,000 | 63,500 | 1,350 | 860,000 | 70,000 | 69,000 | 1,840 | 1,270,000 |
| Arenac | 11,000 | 10,500 | 1,380 | 145,000 | 12,000 | 11,900 | 1,930 | 230,000 |
| Bay | 33,000 | 31,500 | 1,250 | 395,000 | 36,000 | 35,500 | 1,860 | 660,000 |
| Huron | 88,000 | 83,000 | 1,190 | 990,000 | 93,000 | 92,000 | 1,890 | 1,740,000 |
| Saginaw | 18,000 | 16,500 | 1,390 | 230,000 | 19,000 | 18,900 | 1,850 | 350,000 |
| Sanilac | 25,000 | 21,500 | 1,120 | 240,000 | 29,000 | 28,700 | 1,920 | 550,000 |
| Tuscola | 50,000 | 47,000 | 1,320 | 620,000 | 56,000 | 55,000 | 1,890 | 1,040,000 |
| **East Central (6)** | 225,000 | 210,000 | 1,250 | 2,620,000 | 245,000 | 242,000 | 1,890 | 4,570,000 |
| Allegan | – | – | – | – | – | – | – | – |
| Berrien | – | – | – | – | – | – | – | – |
| Cass | – | – | – | – | – | – | – | – |
| Kalamazoo | 600 | 500 | 1,240 | 6,200 | 1,000 | 1,000 | 1,690 | 16,900 |
| Kent | 2,400 | 2,400 | 1,290 | 31,000 | 2,300 | 2,300 | 1,980 | 45,500 |
| Ottawa | – | – | – | – | – | – | – | – |
| Van Buren | – | – | – | – | – | – | – | – |
| **Southwest (7)** | 3,100 | 3,000 | 1,280 | 38,500 | 3,500 | 3,500 | 1,890 | 66,000 |
| Barry | 300 | 300 | 900 | 2,700 | 650 | 650 | 1,890 | 12,300 |
| Branch | 350 | 350 | 1,090 | 3,800 | 300 | 300 | 1,930 | 5,800 |
| Calhoun | – | – | – | – | – | – | – | – |
| Clinton | 1,900 | 1,800 | 1,280 | 23,000 | 3,000 | 3,000 | 1,870 | 56,000 |
| Eaton | 7,500 | 7,000 | 1,190 | 83,000 | 9,400 | 9,200 | 1,950 | 179,000 |
| Hillsdale | – | – | – | – | – | – | – | – |
| Ingham | 400 | 400 | 800 | 3,200 | 500 | 500 | 1,800 | 9,000 |
| Ionia | 3,600 | 3,300 | 910 | 30,000 | 5,400 | 5,400 | 1,810 | 98,000 |
| Jackson | – | – | – | – | – | – | – | – |
| St. Joseph | 1,100 | 1,100 | 1,590 | 17,500 | 3,500 | 3,500 | 1,940 | 68,000 |
| Shiawassee | 800 | 700 | 900 | 6,300 | 1,200 | 1,200 | 1,750 | 21,000 |
| **South Central (8)** | 16,000 | 15,000 | 1,130 | 170,000 | 24,000 | 23,800 | 1,890 | 450,000 |
| Genesee | 400 | 400 | 1,130 | 4,500 | 600 | 600 | 1,670 | 10,000 |
| Lapeer | 8,000 | 6,700 | 1,080 | 72,500 | 9,300 | 9,100 | 1,640 | 149,000 |
| Lenawee | 200 | 200 | 1,300 | 2,600 | 300 | 300 | 1,670 | 5,000 |
| Livingston | – | – | – | – | – | – | – | – |
| Macomb | 400 | 400 | 1,050 | 4,200 | 500 | 500 | 1,500 | 7,500 |
| Monroe | 300 | 300 | 1,300 | 3,900 | 300 | 300 | 1,830 | 5,500 |
| Oakland | – | – | – | – | – | – | – | – |
| St. Clair | 700 | 600 | 1,220 | 7,300 | 1,000 | 1,000 | 1,600 | 16,000 |
| Washtenaw | – | – | – | – | – | – | – | – |
| Wayne | – | – | – | – | – | – | – | – |
| **Southeast (9)** | 10,000 | 8,600 | 1,100 | 95,000 | 12,000 | 11,800 | 1,640 | 193,000 |
| **State** | 335,000 | 310,000 | 1,250 | 3,875,000 | 370,000 | 365,000 | 1,850 | 6,753,000 |

Note: Dry Bean estimates are not published for counties with less than 200 acres.

Yields are rounded to the nearest 10 pounds.

## Navy Beans: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Pounds* | *Cwt.* | *Acres* | | *Pounds* | *Cwt.* |
| **Upper Peninsula (1)** | – | – | – | – | – | – | – | – |
| **Northwest (2)** | – | – | – | – | – | – | – | – |
| Alpena | 1,400 | 800 | 750 | 6,000 | 1,700 | 1,700 | 1,240 | 21,000 |
| Montmorency | – | – | – | – | 250 | 250 | 1,520 | 3,800 |
| Ogemaw | 250 | 230 | 1,000 | 2,300 | – | – | – | – |
| Presque Isle | 300 | 100 | 800 | 800 | 500 | 500 | 1,200 | 6,000 |
| **Northeast (3)** | 3,000 | 2,000 | 900 | 18,000 | 3,100 | 3,100 | 1,290 | 40,000 |
| **West Central (4)** | – | – | – | – | – | – | – | – |
| Gladwin | 1,500 | 1,400 | 1,320 | 18,500 | 1,900 | 1,900 | 1,790 | 34,000 |
| Gratiot | 19,000 | 17,600 | 1,450 | 255,000 | 20,000 | 19,900 | 1,860 | 370,000 |
| Isabella | 4,000 | 3,700 | 1,240 | 46,000 | 4,800 | 4,800 | 1,580 | 76,000 |
| Midland | 5,000 | 4,600 | 1,280 | 59,000 | 5,800 | 5,800 | 1,670 | 97,000 |
| Montcalm | 2,000 | 1,700 | 1,260 | 21,500 | 2,500 | 2,500 | 1,920 | 48,000 |
| **Central (5)** | 31,500 | 29,000 | 1,380 | 400,000 | 35,000 | 34,900 | 1,790 | 625,000 |
| Arenac | 7,000 | 6,600 | 1,360 | 90,000 | 8,000 | 7,900 | 1,900 | 150,000 |
| Bay | 24,000 | 22,600 | 1,240 | 280,000 | 27,000 | 26,800 | 1,830 | 490,000 |
| Huron | 75,000 | 70,400 | 1,170 | 825,000 | 83,000 | 82,500 | 1,880 | 1,550,000 |
| Saginaw | 13,000 | 11,600 | 1,420 | 165,000 | 14,000 | 14,000 | 1,790 | 250,000 |
| Sanilac | 21,000 | 17,600 | 1,140 | 200,000 | 25,000 | 24,800 | 1,920 | 475,000 |
| Tuscola | 40,000 | 37,200 | 1,320 | 490,000 | 46,000 | 45,500 | 1,880 | 855,000 |
| **East Central (6)** | 180,000 | 166,000 | 1,230 | 2,050,000 | 203,000 | 201,500 | 1,870 | 3,770,000 |
| **Southwest (7)** | 500 | 400 | 1,250 | 5,000 | 900 | 900 | 1,670 | 15,000 |
| Clinton | 1,200 | 1,100 | 1,180 | 13,000 | 2,300 | 2,300 | 1,850 | 42,500 |
| Eaton | 6,200 | 5,700 | 1,150 | 65,500 | 8,400 | 8,200 | 1,950 | 159,500 |
| Ionia | 3,200 | 2,900 | 840 | 24,400 | 4,900 | 4,900 | 1,810 | 88,500 |
| Shiawassee | 600 | 500 | 900 | 4,500 | 900 | 900 | 1,670 | 15,000 |
| **South Central (8)** | 11,500 | 10,500 | 1,050 | 110,000 | 17,000 | 16,800 | 1,880 | 315,000 |
| Genesee | – | – | – | – | 300 | 300 | 1,600 | 4,800 |
| Lapeer | 7,500 | 6,200 | 1,080 | 67,000 | 9,000 | 8,800 | 1,630 | 143,400 |
| Macomb | – | – | – | – | 500 | 500 | 1,500 | 7,500 |
| St. Clair | 500 | 400 | 1,200 | 4,800 | 1,000 | 1,000 | 1,600 | 16,000 |
| **Southeast (9)** | 8,500 | 7,100 | 1,080 | 77,000 | 11,000 | 10,800 | 1,620 | 175,000 |
| **State** | 235,000 | 215,000 | 1,240 | 2,660,000 | 270,000 | 268,000 | 1,840 | 4,940,000 |

Note: Navy Bean estimates are not published for counties with less than 200 acres.

Yields are rounded to the nearest 10 pounds.

## Other Dry Beans: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Pounds* | *Cwt.* | *Acres* | | *Pounds* | *Cwt.* |
| Delta | 1,500 | 1,250 | 830 | 10,400 | 1,700 | 1,700 | 1,400 | 23,800 |
| **Upper Peninsula (1)** | 1,700 | 1,400 | 820 | 11,500 | 1,900 | 1,900 | 1,390 | 26,500 |
| Antrim | 200 | 180 | 1,390 | 2,500 | 400 | 400 | 1,880 | 7,500 |
| Manistee | 1,200 | 1,050 | 1,400 | 14,700 | 1,200 | 1,200 | 1,920 | 23,000 |
| **Northwest (2)** | 1,500 | 1,300 | 1,380 | 18,000 | 1,800 | 1,800 | 1,890 | 34,000 |
| Alpena | 2,300 | 1,900 | 1,000 | 19,000 | 2,500 | 2,200 | 1,140 | 25,000 |
| Cheboygan | – | – | – | – | 450 | 450 | 1,440 | 6,500 |
| Montmorency | – | – | – | – | 650 | 650 | 1,600 | 10,400 |
| Presque Isle | 4,400 | 2,400 | 730 | 17,400 | 4,600 | 4,300 | 1,260 | 54,000 |
| **Northeast (3)** | 7,500 | 5,000 | 840 | 42,000 | 8,500 | 7,900 | 1,270 | 100,000 |
| **West Central (4)** | 200 | 200 | 1,000 | 2,000 | 200 | 200 | 1,750 | 3,500 |
| Gladwin | 800 | 800 | 1,280 | 10,200 | 900 | 800 | 1,250 | 10,000 |
| Gratiot | 10,000 | 9,900 | 1,460 | 145,000 | 10,000 | 9,900 | 2,020 | 200,000 |
| Isabella | 2,800 | 2,800 | 1,140 | 32,000 | 3,000 | 2,900 | 1,860 | 54,000 |
| Mecosta | 2,800 | 2,600 | 1,120 | 29,000 | 2,500 | 2,300 | 1,580 | 36,400 |
| Midland | 3,000 | 3,000 | 1,130 | 34,000 | 3,500 | 3,400 | 1,850 | 63,000 |
| Montcalm | 16,000 | 15,300 | 1,360 | 208,500 | 15,000 | 14,700 | 1,900 | 280,000 |
| **Central (5)** | 35,500 | 34,500 | 1,330 | 460,000 | 35,000 | 34,100 | 1,890 | 645,000 |
| Arenac | 4,000 | 3,900 | 1,410 | 55,000 | 4,000 | 4,000 | 2,000 | 80,000 |
| Bay | 9,000 | 8,900 | 1,290 | 115,000 | 9,000 | 8,700 | 1,950 | 170,000 |
| Huron | 13,000 | 12,600 | 1,310 | 165,000 | 10,000 | 9,500 | 2,000 | 190,000 |
| Saginaw | 5,000 | 4,900 | 1,330 | 65,000 | 5,000 | 4,900 | 2,040 | 100,000 |
| Sanilac | 4,000 | 3,900 | 1,030 | 40,000 | 4,000 | 3,900 | 1,920 | 75,000 |
| Tuscola | 10,000 | 9,800 | 1,330 | 130,000 | 10,000 | 9,500 | 1,950 | 185,000 |
| **East Central (6)** | 45,000 | 44,000 | 1,300 | 570,000 | 42,000 | 40,500 | 1,980 | 800,000 |
| Kent | 2,400 | 2,400 | 1,290 | 31,000 | 2,300 | 2,300 | 1,980 | 45,500 |
| **Southwest (7)** | 2,600 | 2,600 | 1,290 | 33,500 | 2,600 | 2,600 | 1,960 | 51,000 |
| Branch | 350 | 350 | 1,090 | 3,800 | 300 | 300 | 1,930 | 5,800 |
| Clinton | 700 | 700 | 1,430 | 10,000 | 700 | 700 | 1,930 | 13,500 |
| Eaton | 1,300 | 1,300 | 1,350 | 17,500 | 1,000 | 1,000 | 1,950 | 19,500 |
| Ingham | – | – | – | – | 500 | 500 | 1,800 | 9,000 |
| Ionia | 400 | 400 | 1,400 | 5,600 | 500 | 500 | 1,900 | 9,500 |
| St. Joseph | 1,100 | 1,100 | 1,590 | 17,500 | 3,500 | 3,500 | 1,940 | 68,000 |
| Shiawassee | 200 | 200 | 900 | 1,800 | 300 | 300 | 2,000 | 6,000 |
| **South Central (8)** | 4,500 | 4,500 | 1,330 | 60,000 | 7,000 | 7,000 | 1,930 | 135,000 |
| Genesee | – | – | – | – | 300 | 300 | 1,730 | 5,200 |
| Lapeer | 500 | 500 | 1,100 | 5,500 | 300 | 300 | 1,870 | 5,600 |
| Monroe | 300 | 300 | 1,300 | 3,900 | 300 | 300 | 1,830 | 5,500 |
| St. Clair | 200 | 200 | 1,250 | 2,500 | – | – | – | -- |
| **Southeast (9)** | 1,500 | 1,500 | 1,200 | 18,000 | 1,000 | 1,000 | 1,800 | 18,000 |
| **State** | 100,000 | 95,000 | 1,280 | 1,215,000 | 100,000 | 97,000 | 1,870 | 1,813,000 |

Note: Dry Bean estimates are not published for counties with less than 200 acres.

Yields are rounded to the nearest 10 pounds.

## Barley: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Bushels* | | *Acres* | | *Bushels* | |
| Alger | 600 | 590 | 59.3 | 35,000 | 500 | 450 | 33.3 | 15,000 |
| Baraga | 200 | 190 | 52.6 | 10,000 | 200 | 180 | 38.9 | 7,000 |
| Chippewa | 100 | 90 | 55.6 | 5,000 | 200 | 150 | 46.7 | 7,000 |
| Delta | 2,300 | 2,150 | 69.8 | 150,000 | 2,100 | 2,050 | 46.3 | 95,000 |
| Dickinson | 400 | 350 | 57.1 | 20,000 | 300 | 280 | 33.9 | 9,500 |
| Gogebic | – | – | – | – | – | – | – | – |
| Houghton | 250 | 240 | 54.2 | 13,000 | 300 | 280 | 42.9 | 12,000 |
| Iron | 150 | 140 | 64.3 | 9,000 | 200 | 180 | 50.0 | 9,000 |
| Keweenaw | – | – | – | – | – | – | – | – |
| Luce | 250 | 240 | 54.2 | 13,000 | 350 | 300 | 33.3 | 10,000 |
| Mackinac | 100 | 90 | 77.8 | 7,000 | 100 | 90 | 44.4 | 4,000 |
| Marquette | 400 | 390 | 79.5 | 31,000 | 400 | 370 | 48.6 | 18,000 |
| Menominee | 1,700 | 1,500 | 56.7 | 85,000 | 2,000 | 1,600 | 35.0 | 56,000 |
| Ontonagon | – | – | – | – | – | – | – | – |
| Schoolcraft | 700 | 690 | 72.5 | 50,000 | 500 | 430 | 37.2 | 16,000 |
| **Upper Peninsula (1)** | 7,200 | 6,700 | 64.2 | 430,000 | 7,200 | 6,400 | 40.6 | 260,000 |
| Antrim | 100 | 90 | 41.1 | 3,700 | 200 | 190 | 31.1 | 5,900 |
| Benzie | – | – | – | – | – | – | – | – |
| Charlevoix | 300 | 280 | 53.6 | 15,000 | 350 | 340 | 41.2 | 14,000 |
| Emmet | 200 | 190 | 57.9 | 11,000 | 300 | 290 | 41.4 | 12,000 |
| Grand Traverse | 250 | 230 | 47.8 | 11,000 | 250 | 240 | 29.2 | 7,000 |
| Kalkaska | – | – | – | – | – | – | – | – |
| Leelanau | – | – | – | – | – | – | – | – |
| Manistee | – | – | – | – | – | – | – | – |
| Missaukee | 100 | 90 | 36.7 | 3,300 | – | – | – | – |
| Wexford | 100 | 90 | 50.0 | 4,500 | – | – | – | – |
| **Northwest (2)** | 1,100 | 1,000 | 50.0 | 50,000 | 1,300 | 1,250 | 36.0 | 45,000 |
| Alcona | 100 | 90 | 66.7 | 6,000 | 150 | 140 | 35.7 | 5,000 |
| Alpena | 400 | 390 | 79.5 | 31,000 | 350 | 330 | 39.4 | 13,000 |
| Cheboygan | 500 | 480 | 58.3 | 28,000 | 600 | 570 | 31.6 | 18,000 |
| Crawford | – | – | – | – | – | – | – | – |
| Iosco | 150 | 140 | 50.0 | 7,000 | 150 | 140 | 46.4 | 6,500 |
| Montmorency | 400 | 380 | 73.7 | 28,000 | 300 | 280 | 33.9 | 9,500 |
| Ogemaw | 800 | 780 | 62.8 | 49,000 | 600 | 570 | 35.1 | 20,000 |
| Oscoda | – | – | – | – | – | – | – | – |
| Otsego | 200 | 190 | 47.4 | 9,000 | 200 | 190 | 31.6 | 6,000 |
| Presque Isle | 1,200 | 1,120 | 53.6 | 60,000 | 1,400 | 1,330 | 52.6 | 70,000 |
| Roscommon | – | – | – | – | – | – | – | – |
| **Northeast (3)** | 3,800 | 3,600 | 61.1 | 220,000 | 3,800 | 3,600 | 41.7 | 150,000 |
| Lake | – | – | – | – | – | – | – | – |
| Mason | 170 | 160 | 57.5 | 9,200 | 300 | 280 | 30.4 | 8,500 |
| Muskegon | 160 | 140 | 50.0 | 7,000 | – | – | – | – |
| Newaygo | 200 | 140 | 52.1 | 7,300 | 200 | 190 | 51.6 | 9,800 |
| Oceana | – | – | – | – | 100 | 90 | 30.0 | 2,700 |
| **West Central (4)** | 600 | 500 | 52.0 | 26,000 | 700 | 650 | 36.9 | 24,000 |
| Clare | 300 | 290 | 55.2 | 16,000 | 200 | 190 | 34.2 | 6,500 |
| Gladwin | 100 | 90 | 55.6 | 5,000 | 150 | 140 | 57.1 | 8,000 |
| Gratiot | – | – | – | – | 150 | 140 | 39.3 | 5,500 |

# Barley: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | *Bushels* | | *Acres* | | *Bushels* | |
| Isabella | 800 | 760 | 50.0 | 38,000 | 1,000 | 930 | 35.5 | 33,000 |
| Mecosta | 250 | 240 | 45.8 | 11,000 | – | – | – | – |
| Midland | – | – | – | – | – | – | – | – |
| Montcalm | 600 | 580 | 44.8 | 26,000 | 750 | 710 | 42.3 | 30,000 |
| Osceola | 400 | 390 | 43.6 | 17,000 | 450 | 420 | 47.6 | 20,000 |
| **Central (5)** | 2,500 | 2,400 | 47.9 | 115,000 | 2,900 | 2,700 | 40.7 | 110,000 |
| Arenac | 250 | 240 | 62.5 | 15,000 | 150 | 140 | 42.9 | 6,000 |
| Bay | 100 | 70 | 57.1 | 4,000 | 100 | 90 | 44.4 | 4,000 |
| Huron | 6,000 | 5,700 | 78.1 | 445,000 | 8,900 | 8,800 | 51.1 | 450,000 |
| Saginaw | 300 | 250 | 40.0 | 10,000 | 150 | 140 | 35.7 | 5,000 |
| Sanilac | 1,600 | 1,500 | 44.0 | 66,000 | 2,100 | 2,050 | 36.6 | 75,000 |
| Tuscola | 850 | 840 | 71.4 | 60,000 | 1,600 | 1,580 | 31.6 | 50,000 |
| **East Central (6)** | 9,100 | 8,600 | 69.8 | 600,000 | 13,000 | 12,800 | 46.1 | 590,000 |
| Allegan | 300 | 290 | 62.1 | 18,000 | 100 | 90 | 44.4 | 4,000 |
| Berrien | 100 | 90 | 55.6 | 5,000 | – | – | – | – |
| Cass | 600 | 400 | 55.0 | 22,000 | 550 | 500 | 42.0 | 21,000 |
| Kalamazoo | 100 | 70 | 57.1 | 4,000 | – | – | – | – |
| Kent | 300 | 280 | 57.1 | 16,000 | 350 | 300 | 43.3 | 13,000 |
| Ottawa | 150 | 140 | 57.1 | 8,000 | 100 | 90 | 44.4 | 4,000 |
| Van Buren | 350 | 330 | 66.7 | 22,000 | 350 | 290 | 55.2 | 16,000 |
| **Southwest (7)** | 1,900 | 1,600 | 59.4 | 95,000 | 1,600 | 1,400 | 45.0 | 63,000 |
| Barry | 250 | 240 | 62.5 | 15,000 | 500 | 470 | 63.8 | 30,000 |
| Branch | 150 | 140 | 60.7 | 8,500 | 100 | 90 | 44.4 | 4,000 |
| Calhoun | 150 | 140 | 53.6 | 7,500 | – | – | – | – |
| Clinton | 400 | 390 | 59.0 | 23,000 | 300 | 280 | 32.1 | 9,000 |
| Eaton | – | – | – | – | 200 | 180 | 44.4 | 8,000 |
| Hillsdale | 150 | 140 | 57.1 | 8,000 | – | – | – | – |
| Ingham | – | – | – | – | 250 | 230 | 43.5 | 10,000 |
| Ionia | 250 | 240 | 54.2 | 13,000 | 500 | 470 | 42.6 | 20,000 |
| Jackson | 150 | 140 | 57.1 | 8,000 | 200 | 180 | 36.1 | 6,500 |
| St. Joseph | – | – | – | – | – | – | – | – |
| Shiawassee | 250 | 240 | 62.5 | 15,000 | 250 | 230 | 43.5 | 10,000 |
| **South Central (8)** | 1,900 | 1,800 | 58.3 | 105,000 | 2,500 | 2,300 | 45.7 | 105,000 |
| Genesee | 100 | 90 | 55.6 | 5,000 | 200 | 180 | 52.2 | 9,400 |
| Lapeer | 600 | 590 | 50.8 | 30,000 | 600 | 580 | 28.4 | 16,500 |
| Lenawee | 150 | 120 | 50.0 | 6,000 | 100 | 90 | 33.3 | 3,000 |
| Livingston | – | – | – | – | – | – | – | – |
| Macomb | – | – | – | – | – | – | – | – |
| Monroe | – | – | – | – | – | – | – | – |
| Oakland | – | – | – | – | – | – | – | – |
| St. Clair | 350 | 340 | 58.8 | 20,000 | 350 | 340 | 35.3 | 12,000 |
| Washtenaw | 500 | 490 | 51.0 | 25,000 | 550 | 530 | 47.2 | 25,000 |
| Wayne | – | – | – | – | – | – | – | – |
| **Southeast (9)** | 1,900 | 1,800 | 52.8 | 95,000 | 2,000 | 1,900 | 37.9 | 72,000 |
| **State** | 30,000 | 28,000 | 62.0 | 1,736,000 | 35,000 | 33,000 | 43.0 | 1,419,000 |

Note: Barley estimates are not published for counties with less than 100 acres.

## Potatoes: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | Acres | | | Cwt. | Acres | | | Cwt. |
| Alger | – | – | – | – | – | – | – | – |
| Baraga | – | – | – | – | – | – | – | – |
| Chippewa | – | – | – | – | – | – | – | – |
| Delta | 1,200 | 1,170 | 260 | 305,000 | 850 | 830 | 245 | 205,000 |
| Dickinson | 1,300 | 1,250 | 265 | 333,000 | 1,100 | 1,050 | 230 | 242,000 |
| Gogebic | – | – | – | – | – | – | – | – |
| Houghton | – | – | – | – | – | – | – | – |
| Iron | 450 | 450 | 235 | 105,000 | 350 | 340 | 225 | 76,000 |
| Keweenaw | – | – | – | – | – | – | – | – |
| Luce | 700 | 690 | 260 | 180,000 | 650 | 630 | 215 | 136,000 |
| Mackinac | – | – | – | – | – | – | – | – |
| Marquette | 550 | 550 | 280 | 155,000 | 450 | 450 | 255 | 115,000 |
| Menominee | – | – | – | – | – | – | – | – |
| Ontonagon | – | – | – | – | – | – | – | – |
| Schoolcraft | 300 | 300 | 285 | 85,000 | 400 | 400 | 200 | 80,000 |
| **Upper Peninsula (1)** | 4,600 | 4,500 | 265 | 1,185,000 | 3,900 | 3,800 | 230 | 875,000 |
| Antrim | 1,500 | 1,450 | 330 | 480,000 | 1,450 | 1,400 | 265 | 370,000 |
| Benzie | – | – | – | – | – | – | – | – |
| Charlevoix | – | – | – | – | – | – | – | – |
| Emmet | 400 | 380 | 210 | 80,000 | 400 | 390 | 210 | 82,000 |
| Grand Traverse | – | – | – | – | – | – | – | – |
| Kalkaska | 900 | 880 | 300 | 265,000 | 900 | 870 | 290 | 252,000 |
| Leelanau | – | – | – | – | – | – | – | – |
| Manistee | – | – | – | – | – | – | – | – |
| Missaukee | – | – | – | – | 200 | 190 | 210 | 40,000 |
| Wexford | – | – | – | – | – | – | – | – |
| **Northwest (2)** | 3,100 | 3,000 | 305 | 920,000 | 3,200 | 3,100 | 250 | 775,000 |
| Alcona | – | – | – | – | – | – | – | – |
| Alpena | 1,300 | 1,250 | 230 | 285,000 | 1,200 | 1,170 | 210 | 245,000 |
| Cheboygan | – | – | – | – | – | – | – | – |
| Crawford | – | – | – | – | – | – | – | – |
| Iosco | – | – | – | – | – | – | – | – |
| Montmorency | – | – | – | – | – | – | – | – |
| Ogemaw | – | – | – | – | – | – | – | – |
| Oscoda | – | – | – | – | – | – | – | – |
| Otsego | 1,000 | 1,000 | 230 | 230,000 | 900 | 880 | 275 | 240,000 |
| Presque Isle | 3,100 | 2,950 | 255 | 750,000 | 3,200 | 3,150 | 190 | 605,000 |
| Roscommon | – | – | – | – | – | – | – | – |
| **Northeast (3)** | 5,400 | 5,200 | 245 | 1,265,000 | 5,300 | 5,200 | 210 | 1,090,000 |
| Lake | – | – | – | – | – | – | – | – |
| Mason | – | – | – | – | – | – | – | – |
| Muskegon | – | – | – | – | – | – | – | – |
| Newaygo | – | – | – | – | – | – | – | – |
| Oceana | – | – | – | – | – | – | – | – |
| **West Central (4)** | 200 | 200 | 225 | 45,000 | 200 | 200 | 200 | 40,000 |
| Clare | – | – | – | – | – | – | – | – |
| Gladwin | – | – | – | – | – | – | – | – |
| Gratiot | 300 | 300 | 265 | 80,000 | 400 | 400 | 250 | 100,000 |

# Potatoes: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | Acres | | | Cwt. | Acres | | | Cwt. |
| Isabella | – | – | – | – | – | – | – | – |
| Mecosta | 1,800 | 1,800 | 350 | 630,000 | 1,400 | 1,300 | 315 | 410,000 |
| Midland | 200 | 200 | 275 | 55,000 | 200 | 200 | 300 | 60,000 |
| Montcalm | 11,500 | 11,300 | 360 | 4,050,000 | 11,300 | 11,100 | 315 | 3,515,000 |
| Osceola | 200 | 200 | 325 | 65,000 | 200 | 200 | 325 | 65,000 |
| **Central (5)** | 14,000 | 13,800 | 355 | 4,880,000 | 13,500 | 13,200 | 315 | 4,150,000 |
| Arenac | 1,600 | 1,400 | 215 | 300,000 | 1,500 | 1,400 | 245 | 340,000 |
| Bay | 7,000 | 6,700 | 265 | 1,770,000 | 7,300 | 7,050 | 245 | 1,710,000 |
| Huron | 500 | 500 | 280 | 140,000 | 500 | 490 | 275 | 135,000 |
| Saginaw | 800 | 800 | 225 | 180,000 | 500 | 490 | 195 | 95,000 |
| Sanilac | 1,100 | 1,100 | 285 | 315,000 | 600 | 570 | 280 | 160,000 |
| Tuscola | 1,500 | 1,500 | 275 | 415,000 | 1,600 | 1,500 | 290 | 435,000 |
| **East Central (6)** | 12,500 | 12,000 | 260 | 3,120,000 | 12,000 | 11,500 | 250 | 2,875,000 |
| Allegan | 2,000 | 1,950 | 320 | 620,000 | 1,600 | 1,450 | 270 | 390,000 |
| Berrien | – | – | – | – | – | – | – | – |
| Cass | – | – | – | – | – | – | – | – |
| Kalamazoo | – | – | – | – | 500 | 450 | 250 | 112,000 |
| Kent | 500 | 460 | 295 | 136,000 | – | – | – | – |
| Ottawa | – | – | – | – | – | – | – | – |
| Van Buren | – | – | – | – | – | – | – | 550,000 |
| **Southwest (7)** | 2,800 | 2,700 | 305 | 830,000 | 2,500 | 2,300 | 240 | 550,000 |
| Barry | – | – | – | – | – | – | – | – |
| Branch | – | – | – | – | – | – | – | – |
| Calhoun | – | – | – | – | – | – | – | – |
| Clinton | – | – | – | – | – | – | – | – |
| Eaton | 1,150 | 1,070 | 260 | 280,000 | 800 | 750 | 215 | 163,000 |
| Hillsdale | – | – | – | – | – | – | – | – |
| Ingham | 230 | 190 | 265 | 50,000 | 250 | 240 | 260 | 62,000 |
| Ionia | 250 | 200 | 250 | 50,000 | 250 | 230 | 215 | 50,000 |
| Jackson | 200 | 190 | 265 | 50,000 | 250 | 240 | 200 | 48,000 |
| St. Joseph | – | – | – | – | – | – | – | – |
| Shiawassee | 500 | 480 | 250 | 120,000 | 350 | 340 | 250 | 85,000 |
| **South Central (8)** | 2,700 | 2,500 | 255 | 640,000 | 2,200 | 2,100 | 215 | 455,000 |
| Genesee | 700 | 700 | 255 | 180,000 | 600 | 590 | 185 | 109,000 |
| Lapeer | 600 | 550 | 235 | 130,000 | 500 | 470 | 250 | 118,000 |
| Lenawee | 900 | 900 | 260 | 235,000 | 900 | 890 | 240 | 214,000 |
| Livingston | – | – | – | – | – | – | – | – |
| Macomb | – | – | – | – | – | – | – | – |
| Monroe | 1,400 | 1,350 | 260 | 350,000 | 1,500 | 1,450 | 215 | 309,000 |
| Oakland | – | – | – | – | – | – | – | – |
| St. Clair | – | – | – | – | 250 | 250 | 280 | 70,000 |
| Washtenaw | 350 | 350 | 230 | 80,000 | 300 | 300 | 230 | 69,000 |
| Wayne | – | – | – | – | – | – | – | – |
| **Southeast (9)** | 4,200 | 4,100 | 250 | 1,035,000 | 4,200 | 4,100 | 220 | 905,000 |
| **State** | 49,500 | 48,000 | 290 | 13,920,000 | 47,000 | 45,500 | 257 | 11,715,000 |

Note: Potato estimates are not published for counties with less than 200 acres.
Yields are rounded to the nearest 5 hundred-weight.

# Sugarbeets: Acreage, Yield, Production, 1991-92

| District and County | 1992 | | | | 1991 | | | |
|---|---|---|---|---|---|---|---|---|
| | Planted | Harvested | Yield | Production | Planted | Harvested | Yield | Production |
| | *Acres* | | | *Tons* | *Acres* | | | *Tons* |
| **Upper Peninsula (1)** | – | – | – | – | – | – | – | – |
| **Northwest (2)** | – | – | – | – | – | – | – | – |
| **Northeast (3)** | 100 | 100 | 17.0 | 1,700 | 300 | 300 | 13.3 | 4,000 |
| **West Central (4)** | – | – | – | – | – | – | – | – |
| Clare | – | – | – | – | – | – | – | – |
| Gladwin | 1,000 | 900 | 14.4 | 13,000 | 750 | 750 | 13.3 | 10,000 |
| Gratiot | 21,500 | 20,800 | 18.6 | 386,000 | 20,300 | 20,100 | 18.9 | 380,000 |
| Isabella | 1,900 | 1,700 | 11.2 | 19,000 | 1,750 | 1,600 | 16.1 | 25,800 |
| Mecosta | – | – | – | – | – | – | – | – |
| Midland | 4,700 | 4,600 | 15.4 | 71,000 | 4,700 | 4,400 | 16.6 | 73,000 |
| Montcalm | 600 | 500 | 17.6 | 8,800 | – | – | – | – |
| Osceola | – | – | – | – | – | – | – | – |
| **Central (5)** | 29,800 | 28,600 | 17.4 | 499,000 | 28,000 | 27,300 | 18.2 | 496,000 |
| Arenac | 5,300 | 5,200 | 16.3 | 85,000 | 5,100 | 4,900 | 16.5 | 81,000 |
| Bay | 24,000 | 23,200 | 18.0 | 418,000 | 22,900 | 21,700 | 15.4 | 335,000 |
| Huron | 34,300 | 34,000 | 18.5 | 628,000 | 33,000 | 32,900 | 15.6 | 513,000 |
| Saginaw | 22,000 | 21,700 | 18.1 | 392,000 | 21,300 | 20,400 | 15.8 | 322,000 |
| Sanilac | 16,000 | 15,700 | 15.0 | 235,000 | 15,300 | 15,000 | 12.8 | 192,000 |
| Tuscola | 39,400 | 38,900 | 18.7 | 727,000 | 37,400 | 36,800 | 14.5 | 535,000 |
| **East Central (6)** | 141,000 | 138,700 | 17.9 | 2,485,000 | 135,000 | 131,700 | 15.0 | 1,978,000 |
| **Southwest (7)** | – | – | – | – | – | – | – | – |
| **South Central (8)** | – | – | – | – | – | – | – | – |
| Genesee | – | – | – | – | – | – | – | – |
| Lapeer | – | – | – | – | – | – | – | – |
| Lenawee | 3,500 | 3,300 | 15.5 | 51,000 | 3,200 | 2,950 | 15.6 | 46,000 |
| Livingston | – | – | – | – | – | – | – | – |
| Macomb | – | – | – | – | – | – | – | – |
| Monroe | 2,600 | 2,300 | 13.9 | 32,000 | 2,600 | 2,000 | 11.2 | 22,300 |
| Oakland | – | – | – | – | – | – | – | – |
| St. Clair | 1,600 | 1,600 | 15.5 | 24,800 | 1,450 | 1,400 | 15.0 | 21,000 |
| Washtenaw | – | – | – | – | – | – | – | – |
| Wayne | – | – | – | – | – | – | – | – |
| **Southeast (9)** | 8,100 | 7,600 | 14.8 | 112,300 | 7,700 | 6,700 | 14.2 | 95,000 |
| **State** | 179,000 | 175,000 | 17.7 | 3,098,000 | 171,000 | 166,000 | 15.5 | 2,573,000 |

Note: Sugarbeet estimates are not published for counties with less than 500 acres.

# National Agricultural Statistics Service Order Form

| Periodical Title | Order # | 1 Year | 2 Years | 3 Years |
|---|---|---|---|---|
| **Field Crop Reports** | | | | |
| Crop Production (monthly plus annual *Summary* plus annual *Prospective Plantings* and *Acreage* and *Winter Wheat and Rye Seedings*) | PCP | __ $42 | __ $82 | __ $122 |
| Crop Progress (weekly, April through November) | PCR | __ $41 | __ $80 | __ $119 |
| Grain Stocks (quarterly) | PGS | __ $17 | __ $32 | __ $47 |
| Hop Stocks (March and September) | PHS | __ $13 | __ $24 | __ $35 |
| Peanut Stocks and Processing (monthly) | PPS | __ $22 | __ $42 | __ $62 |
| Potato Stocks (6 issues plus annual *Potatoes*) | PPO | __ $18 | __ $34 | __ $50 |
| Rice Stocks (quarterly) | PRS | __ $15 | __ $28 | __ $41 |
| Cotton Ginnings (13 issues plus *Annual*) | PCG | __ $25 | __ $48 | __ $71 |
| **Fruit, Nut, and Vegetable Reports** | | | | |
| Almond Production (annual) | ZAL | __ $7 | __ $12 | __ $17 |
| Cherry Production (annual) | ZCP | __ $7 | __ $12 | __ $17 |
| Citrus Fruits (annual) | ZCF | __ $10 | __ $18 | __ $26 |
| Cranberries (annual) | ZCR | __ $10 | __ $18 | __ $26 |
| Hazelnut Production (annual) | ZFP | __ $7 | __ $12 | __ $17 |
| Noncitrus Fruits and Nuts (2 issues) | PNF | __ $14 | __ $26 | __ $38 |
| Pistachio Production (annual) | ZPP | __ $7 | __ $12 | __ $17 |
| Walnut Production (annual) | ZWP | __ $7 | __ $12 | __ $17 |
| Vegetables (5 issues plus annual *Summary*) | PVG | __ $18 | __ $34 | __ $50 |
| **Livestock Reports** | | | | |
| Cattle (2 issues plus monthly *Cattle on Feed*) | PCT | __ $22 | __ $42 | __ $62 |
| Hogs and Pigs (quarterly) | PHP | __ $15 | __ $28 | __ $41 |
| Livestock Slaughter (monthly plus annual *Summary*) | PLS | __ $27 | __ $52 | __ $77 |
| Meat Animals: Production, Disposition, and Income (annual) | ZMA | __ $10 | __ $18 | __ $26 |
| Sheep and Goats (annual plus *Wool and Mohair* and 3 issues of *Sheep and Lambs on Feed*) | ZSG | __ $18 | __ $34 | __ $50 |
| **Poultry Reports** | | | | |
| Broiler Hatchery (weekly) | PBH | __ $52 | __ $102 | __ $152 |
| Egg Products (monthly) | PEP | __ $21 | __ $40 | __ $59 |
| Eggs, Chickens, and Turkeys (monthly plus *Hatchery Production* and *Layers and Egg Production, Poultry: Production and Value* and *Turkeys*) | PEC | __ $35 | __ $68 | __ $101 |
| Turkey Hatchery (monthly) | PTH | __ $21 | __ $40 | __ $59 |
| Poultry Slaughter (monthly) | PPY | __ $22 | __ $42 | __ $62 |
| **Dairy Reports** | | | | |
| Dairy Products (monthly plus *Summary*) | PDP | __ $25 | __ $48 | __ $71 |
| Milk Production (monthly plus annual *Milk Production, Disposition, and Income*) | PMP | __ $22 | __ $42 | __ $62 |
| **Price and Expenditure Reports** | | | | |
| Agricultural Prices Monthly (monthly) | PAP | __ $28 | __ $54 | __ $80 |
| Agricultural Prices Annual (annual) | ZAP | __ $12 | __ $22 | __ $32 |
| Farm Production Expenditures (July and August) | PFP | __ $14 | __ $26 | __ $38 |
| Crop Values (annual) | ZCV | __ $11 | __ $20 | __ $29 |
| Prices Received, Minnesota-Wisconsin Manufacturing Grade Milk (annual) | ZPR | __ $10 | __ $18 | __ $26 |

**SUBTOTAL (please add to total on other side of order form)** ____

# National Agricultural Statistics Service Order Form

| Periodical Title | Order # | 1 Year | 2 Years | 3 Years |
|---|---|---|---|---|
| **Other Reports** | | | | |
| Agricultural Chemical Usage (March and June) | PCU | __ $17 | __ $32 | __ $47 |
| Catfish Processing (monthly plus *Catfish Production*) | PCF | __ $25 | __ $48 | __ $71 |
| Cold Storage (monthly plus *Summary* and *Capacity of Refrigerated Warehouses*) | PCS | __ $27 | __ $52 | __ $77 |
| Farm Labor (quarterly) | PFL | __ $15 | __ $28 | __ $41 |
| Farm Numbers and Land in Farms (annual) | ZFL | __ $10 | __ $18 | __ $26 |
| Floriculture Crops (annual) | ZFC | __ $12 | __ $22 | __ $32 |
| Honey (annual) | ZHO | __ $10 | __ $18 | __ $26 |
| Trout Production (annual) | ZTP | __ $10 | __ $18 | __ $26 |
| **NASS Historical Data** | | | | |
| Cattle: Final Estimates 1984-88 | SB-798 | __ $11 | | |
| Chickens and Eggs: Final Estimates 1984-87 | SB-801 | __ $11 | | |
| Citrus Fruits: Final Estimates 1981-82 Crop, 1986-87 Crop | SB-796 | __ $ 8 | | |
| Crop Values: Final Estimates 1982-87 | SB-818 | __ $11 | | |
| Farm Employment and Wage Rates: 1910-90 | SB-822 | __ $14 | | |
| Farms and Land in Farms: Final Estimates 1979-87 | SB-792 | __ $ 4 | | |
| Field Crops: Final Estimates 1982-87 | SB-783 | __ $11 | | |
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